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CHEMIST AND DRUGGIST

AUGUST 12 1967

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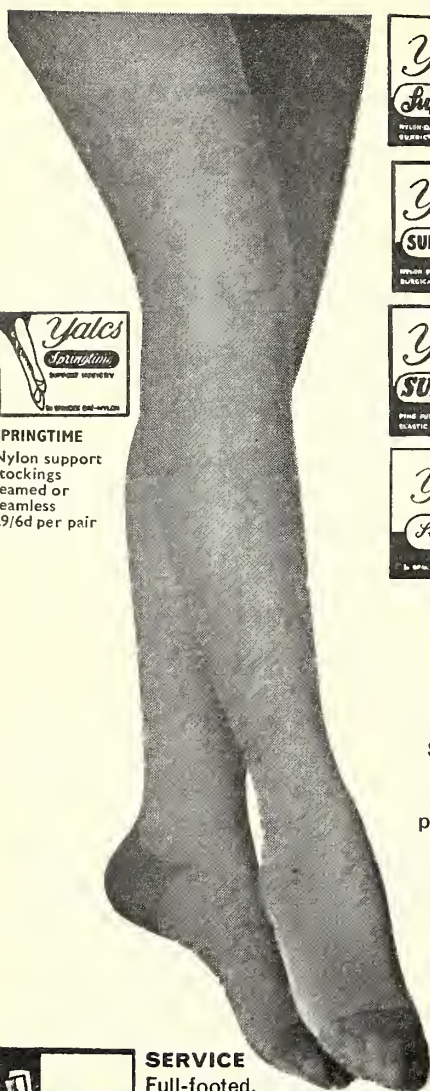
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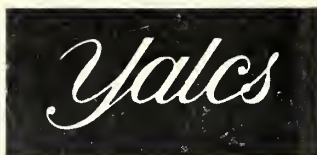
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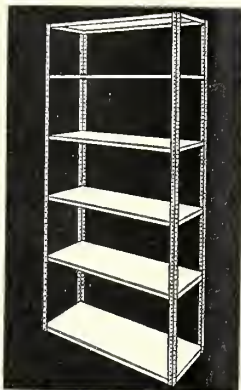
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CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical,
fine chemical, cosmetics, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and of the Pharmaceutical Society of Northern Ireland*

Volume 188

August 12, 1967

No. 4565

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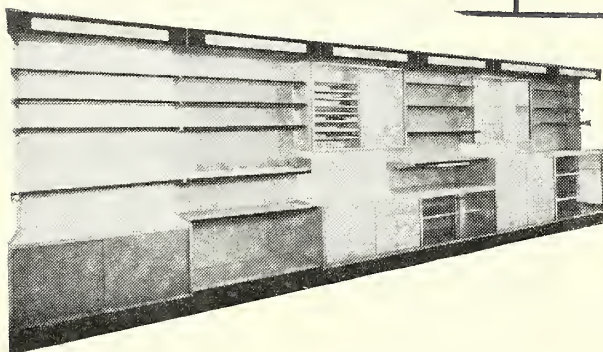
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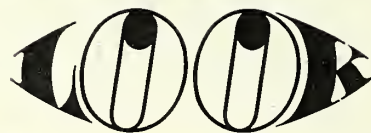
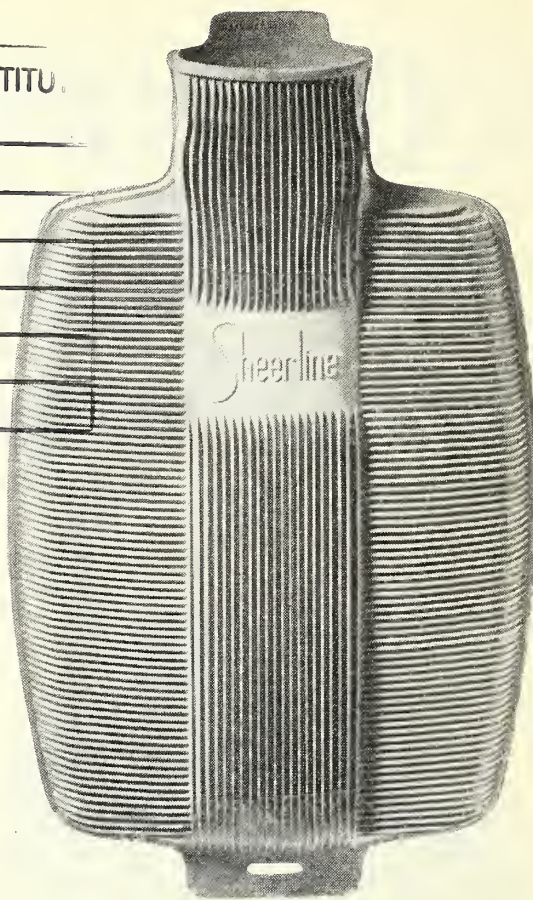
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C&D

CHEMIST AND DRUGGIST

Volume 188

AUGUST 12, 1967

No. 4565

Tablet Containers

CARDBOARD CARTONS CRITICISED

WORCESTERSHIRE Executive Council is being recommended by its finance and general purposes committee to inform the Ministry of Health that it considers that collapsible cardboard containers are inadequate for the dispensing of tablets. The committee suggests that bottles or plastic containers should be used and that, if necessary, the container allowance to chemists should be increased to cover any additional cost. The matter had been raised by the Local Medical Committee, which is reported not to have accepted that the container allowance was insufficient—a dispensing doctor member had stated that the cost of small plastic containers bought in bulk was similar to the cost of cardboard boxes. The Medical Committee has already been informed by the Council that it was understood that it was the wish of all chemists to supply tablets in bottles but the present allowance was inadequate for that to be done.

Cannabis

STATEMENT BY THE SOCIETY

THE Pharmaceutical Society of Great Britain issued the following statement on August 3:—

THOSE who would relax control over *Cannabis sativa* have, in the Society's view produced insufficient evidence to substantiate their claims. The demand for amendment of the law raises many vital questions touching the well-being of the community; where these questions have not been ignored by the advocates of liberalisation, they have at best been given totally inadequate answers.

This Society, while recognising that there is ground for legitimate scientific argument about the pharmacological effects of cannabis, is anxious that the public should not mistake enthusiastic pleading for impartial judgment. Personal impressions offered by a clamant minority are no substitute for the facts now being sought by a subcommittee of the Advisory Committee on Drug Dependence, which is studying both LSD and cannabis. It would be folly to anticipate the subcommittee's findings.

A person who now accepts *Cannabis sativa* for the tranquillity, euphoria—and apathy—that it offers also accepts a risk, for his acceptance involves a decision made in ignorance of the consequences. The effects of many drugs are little understood, but their therapeutic value justifies their use. Indeed, the damage that a drug

is known to produce is often acceptable when reckoned against the havoc wrought by the disease that the drug is designed to cure. Cannabis is considered to be of no value in therapeutics, and it is not proved to be devoid of danger. Consequently, in the present state of knowledge, there is no justification for its use.

At the centre of the current debate is the health of the community, and particularly the health of that section of the country's youth which is beginning to believe that the problems and stresses of life can be escaped or evaded by resort to drugs. Recently in the House of Commons an M.P. said: "They want to escape from this horrible society we have created." This philosophy on drugs is strongly condemned by this Society. If it is pursued it is likely to bring not freedom but a synthetic tyranny, with impressionable youth the easiest victims.

Pharmacy Technicians

TRAINING SCHEME EXTENDED

MANCHESTER Regional Hospital Board's establishment committee, have approved a suggestion of its technical advisory panel on pharmacy for the extension of a training scheme for pharmacy technicians during 1967-68. The scheme, which was commenced in 1964 in hospitals governed by the Preston and Chorley, Wigan and Leigh, Bolton and South Manchester Hospital Management Committees will now extend to those under the care of the North Manchester, Burnley and Salford H.M.C.S. Estimated cost of the extension is £4,200 which will be used in defraying the cost of keeping two technicians in training at each hospital at all times. Training may be carried out either at the hospital or at a technical

college and the money may be used to pay salaries or to defray travelling expenses and up to 75 per cent. of examination expenses. Training is given up to the level required by the Society of Apothecaries.

Botanical Drugs

APPLICATION FOR DUTY CONCESSION

AN application has been made to the Board of Trade for the removal of import duty on certain botanical drugs, ex Tariff subheadings 12.07(E)(2) and 13.02(C). The list of drugs covered by the application is:—

Agrimony herb	Echinacea root
Aletris root	Elder leaves and flowers
Angelica root	Euonymus bark
Balmoney herbs and leaves	Fringe tree bark
Bayberry bark	Galanga root
Belladonna leaves and herbs	Gum euphorbium
Beth root	Henbane (including <i>hyoscyamus niger</i>)
Black cohosh root	Lavender flowers
Black haw bark	Lime tree flowers
Blue cohosh root	Marshmallow leaves and roots
Blood root	Nux vomica seeds
Boneset herb	Pleurisy root
Calamus rhizome	Prickly ash bark and berries
Comfrey leaves and roots	Quince seeds
Cubeb berries	<i>Rhus aromaticus</i>
Drosera	Senega root

A statement of the applicant's case will be made available to interested parties who wish to make representations in the matter, if they are prepared to give an undertaking to treat the information contained therein as strictly confidential and to allow their comments to be passed to the applicants for reply. Requests for the statement of case, together with an undertaking to observe those terms should

be addressed to the Board's Tariff Division, Board of Trade, 1 Victoria Street, London, S.W.1, by August 21.

PENSIONERS' PARTY: Over 130 pensioners of Parke, Davis & Co., Hounslow, Middlesex, attended the company's recent party for retired employees. The pensioners were welcomed at luncheon by Mr. Selwyn Andrews, who recently took over as the company's chief executive, and by other staff members.



Nielsen Drug Index

N.H.S. PAYMENTS AND TURNOVER

THE average weekly turnover obtained by retail pharmacists during May-June was £7,414,000 an increase of 1.2 per cent. over the corresponding period in 1966. Owing to the mild weather the

number of prescriptions was lower than in 1966 but payments were a little higher because of the continuing increase in average ingredient costs, states the *Nielsen Drug Index Retailer Report*. The average weekly cash sales in retail pharmacies were:— Multiples, £487; large independents, £540; me-

dium independents, £279; small independents: £134. It was estimated that the multiple pharmacies obtained 39.2 per cent. of the total turnover during the period whilst the large, medium and small independents obtained 12.3, 21.0 and 27.5 per cent. respectively. The average weekly National Health Service payments per shop were:— Large independents, £364; multiples £254; medium independents £221; small independents £145. During May independent pharmacies dispensed 66.9 per cent. of the National Health Service prescriptions (an average of 1,559 per shop per month), whilst the multiple pharmacies dispensed 33.1 per cent. (an average of 2,196 per shop per month). National Health Service payments amounted to 32.2 per cent. of the total turnover in multiple pharmacies and 43.8 per cent. in independents.

DEFINING A GROCER

Judge grants interim injunction against selling health salts and aspirins

WHAT is a grocer? That was the question posed before a High Court judge in London on August 2. A grocer, said a Queen's Counsel, quoting from the *Greater Oxford Dictionary*, is "a trader who deals in spices, dried fruits, sugar and all articles of domestic consumption except those that are the distinctive wares of some other class of tradesman." If, said Counsel, he sells: toothbrushes, tooth-paste, medical plasters, hair creams, bath salts, health salts, aspirins, frozen chicken, chocolate, confectionery, buckets, bowls, cups or beakers, he is not a grocer. Counsel was appearing for Telken Investments, Ltd., King Street, Watford, landlords of a parade of eight shops in Orbital Crescent, Watford, who sought a temporary order stopping the tenants of one of the shops (David Harris & Son, Ltd.) from selling in breach of a covenant the articles in Mr. Francis's second list.

Counsel explained that the covenant had been included in the lease of each shop in order to give the shopkeeper protection from immediate competition. It also enabled the landlords to get a higher rent for the shops.

Mr. Edward Terrence Neal, lessee of the chemist's shop in the parade stated in an affidavit that the fact that no other chemist's business could be carried on in the crescent had been a major factor in inducing him to take his lease. In the defendants' shop in June he saw on sale, among other things, health salts, medical plasters, toothbrushes and tooth-paste. Also displayed were chocolate and confectionery and various items of hardware.

Mr. A. J. Balcombe for the defendants, read the evidence of Mr. Jack Harris (director of the defendant company) who said that it had a chain of forty grocery shops. All the goods complained of, except chocolate and confectionery, had been sold since the shop opened.

Mr. Jack Cohen (chairman of Tesco Stores, Ltd.) by affidavit stated that the nature of the business of a general grocer was not static. It had recently been changing.

Mr. Frederick Clays (president of Greater Harrow chamber of commerce), by affidavit stated that the business of a general grocer now normally included the sale of baby foods, health and beauty aids, chocolates and confectionery, and a range of fruit and vegetables.

Mr. Balcombe said that the lease permitted the use of the shop for the business of general grocer, and that there was no prohibition against the selling of any class of goods. The question was what the business of a general grocer was.

Mr. Balcombe explained that the lease had been granted in 1961, and the right test was to look at the evidence of what was sold in grocery shops in the 1960's. Most of the goods complained of were sold in grocer's shops today.

"There is evidence to the contrary in the 1944 *Oxford Dictionary* definition of 'grocer'," said the judge (Mr. Justice Geoffrey Lane).

MR. BALCOMBE: "That is not the meaning today. The advance in technology, which produces modern food-stuffs, changes the scope of grocery businesses."

Counsel added that he did not know which shops the judge patronised.

"I visit them all, including Tesco's," said the judge.

MR. BALCOMBE: "It appears that the landlords are bringing these proceedings because they have been egged on by one of their other lessees, a chemist."

THE JUDGE: "What I have to decide is whether it is usual for a grocer to sell baby's pants and whatnots."

The result of the hearing was that the defendants conceded, pending full trial of the landlord's action, that they should not sell medicated plasters, hair cream, buckets, bowls, cups, beakers and other hardware, and gave an undertaking to that effect. The judge decided not to grant an order preventing Messrs. Harris from selling frozen chicken, chocolate and confectionery, but he granted the landlords an interim injunction against the defendants to prevent them from selling toothbrushes, toothpaste, bath and health salts, and aspirins.

A Second Case

In a second case Kentel Properties, Ltd., Watford, landlords of a shop at Centre Parade, Place Farm Way, Monks Risborough, Bucks, claimed that David Harris & Son, Ltd., at that shop were in breach of a covenant to trade as general grocers. Mr. Balcombe said that his clients regarded the sale of fresh fruit and vegetables as part of general grocery, but were prepared to give undertakings — again pending full trial — not to sell at that shop cigarettes and tobacco, dog collars and leads, pet brushes, and combs, gramophone records, nylon stockings, light bulbs, crockery and glasses, polythene buckets, garden hose, liquid paint stripper, zip fasteners, sewing cotton and buttons, paper patterns, and hair curlers, nets and grips.

The judge granted Messrs Kentel an interim injunction restraining the sale at that shop of health salts, toothbrushes and toothpaste, hair cream, and fresh fruit and vegetables.

Statutory Committee

SIX CASES FOR CONSIDERATION

THE Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, at 10.30 a.m. on August 23 to reopen an inquiry into the case of a body corporate registered as an authorised seller of poisons which has been convicted of offences under the Pharmacy and Poisons Act, 1933. The Committee will further proceed to consider information and evidence from which it appears that:— (1) A member of the Society has been convicted on charges of driving a motor vehicle while unfit through drink or drugs. (2) A body corporate, registered as an authorised seller of poisons, has been convicted of offences under the Pharmacy and Poisons Act, 1933. (3) A member of the Society has been convicted of larceny as a servant. (4) A member of the Society may have been guilty of misconduct. (5) A member of the Society has been convicted of offences under the Pharmacy and Poisons Act, 1933.

Chemists' Retail Sales

BOARD OF TRADE STATISTICS

THE index of retail sales by chemists and photographic good dealers in June was 132 (average monthly sales in 1961=100), an increase of 3 per cent. over the same period a year earlier. Figures recently issued by the Board of Trade also reveal the following indices for the month:—

Independent retailers	128 (+1 per cent.)
Multiple retailers	141 (+8 per cent.)
Co-operative societies	113 (—1 per cent.)

The figures do not allow for receipts obtained under the National Health Service.

Hospital "Board"

C.B.I. RECOMMENDS CHARGES

PROPOSALS made by the Confederation of British Industry for an urgent reappraisal of public expenditure policy and for easing the strain on Exchequer funds include a suggestion that charges might be made for hospital board and surgery attendance under the National Health Service.

IRISH BREVITIES

THE NORTH

FOLLOWING discussions with the Registrar of Restrictive Trading Agreements, the Ulster Chemists' Association has issued a list of cost prices for drugs and pharmaceutical preparations. Members arrive at a selling price adding their normal percentage profit and cost of the container.

NEWS IN BRIEF

A DRUG with reputed hallucinatory properties reported to be circulating in London under the name "STP" has been found to be methylmethoxy-methylphenylethylamine, says the Home Office.

THE Companies Act, 1967 (H.M. Stationery Office, price 10s. 6d.) comprises six parts and eight schedules in 136 pages. It abolishes the status of "exempt private company" and requires specific information to be given in companies' accounts.

KODAK, Ltd., Kingsway, London, W.C.2, confirm an earlier statement that increased prices of some of their sensitised products are inevitable, owing to the recent sharp rise in the cost of silver, but state that there will be no increase in the prices of their colour films this year.

A RECENT letter in the *British Medical Journal* stating that gluten-free products are available "from branches of a large multiple pharmacy" gave the impression that the products are not available from "private" pharmacies, says Mr. J. Wright (secretary, National Pharmaceutical Union), also in a letter in the *B.M.J.* (August 5). The Union's experience is that that "certainly is not the case."

MAREK'S disease, formerly known as fowl paralysis, in which there is a tumour-like proliferation of lymphoid cells in the nerves and other organs has been shown to be associated with viruses of the type that cause chicken pox and measles, according to a report in *The Times* of August 1. It is hoped the techniques used in the discovery may be used to find the cause of similar tumours that occur in other animals, including man.

SPORT

GOLF

LONDON CHEMISTS' GOLFING SOCIETY. A successful visitors' day meeting at South Hertfordshire golf club on August 2 is reported. Results: (Medal) Arthur H. Cox competition, J. A. Bennett (12), 73. Sanger cup and prize, A. J. Campbell (14), 74. (Stableford) Yardley cup and prize, M. Lewis (11), 33 points. Best score in this competition was achieved by Mr. W. N. Cockburn with 33 points playing off a handicap of 7. He has already won two prizes during the season and under the Society's rules the prize was awarded to Mr. Lewis. Visitors prize, C. R. Hughes (13), 33 points.

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY BRANCHES

Ayrshire. — Chairman, H. C. D. Liddle; Vice-chairman, A. N. Anderson; Treasurer and Secretary, J. Buntin, Lectoure, 34 Mansfield Road, Mauchline, Ayrshire.

Worcester City and County. — Secretary, R. J. Kimberley, 108 New Road, Rubery, Birmingham. (Change of address).

TOPICAL REFLECTIONS

By Xrayser

Catch Phrases

I read with warm approval your leading article (p. 121) dealing with the current obsession with drug-taking. In a debate in the House of Commons on July 28, Miss Alice Bacon said that "insidiously or openly, wittingly or unwittingly, the young are being taught the paraphernalia of psychedelic experience and the catch phrases of drug cults." She went on to say that it was time to make clear that teenage drug-taking was ill-advised, if not dangerous to personality and health. In my opinion it is all of those. In the course of the debate the statement was made that, of heroin addicts known to the Home Office, 97 per cent. had a previous record of cannabis taking, at which point Mr. T. Driberg interjected "and of alcohol." The purpose of the interjection is not clear. Did Mr. Driberg mean that the addiction to heroin was brought about by a combination of cannabis and alcohol? If so, has he proof of the combined effect? The Home Office figure of 97 per cent. quoted by Miss Bacon was official. Has Mr. Driberg official backing for his statement, which implies that alcohol played a part in the whole of the cases referred to by Miss Bacon? Or is the implication that alcohol is as dangerous a drug as cannabis, or perhaps even more so? If that is the point of the interjection, it seems to be a poor argument, for one evil is not cured by making it into two. Signatories of a recent full-page advertisement in *The Times* asked for a relaxation of the law relating to cannabis, claiming that it (the law on the subject) was immoral in principle. The advertisement was sponsored by an organisation that proposes to examine "without prejudice" the scientific, medical, legal, moral, social and philosophic aspects of heightened mental awareness, with special reference to the effects of pleasure-giving drugs. One might be excused for feeling that the description "pleasure-giving drugs" almost prejudices the issue. Would any pharmacist, with his knowledge of the international control of cannabis on a world scale, encourage any member of his family to take the drug in any form?

Chemists' Action Group

All dissident movements have small beginnings, and that appears to have been the experience of the Chemists' Action Group of Great Britain in its inaugural meeting in London of July 30 (p. 114). An attendance of thirty might have daunted the most enthusiastic rebel against the established order, but the meeting proceeded to pass a vote of no confidence in the Central National Health Service (Chemist Contractors) Committee, and to authorise a letter of protest to the Minister of Health registering "disgust" at the recent additional cuts in oncost. Office-bearers were duly appointed at the meeting. I am not unsympathetic towards the feeling of contractors, but there have been opportunities for action through the normal channels since the basis of payment was agreed between the Ministry and the chemists' representatives. Much has been made of the effect of the cut on the few who have opened businesses recently and have, so to speak, to pay for the sins of their fathers, but the argument opens up the question of whether, had the investigation gone the other way, the newcomers would have renounced any increase that would then have come to them. I note that one view was expressed asking that substantial backing should be given to the contractors' committee and saying that it would be unwise to break up the present procedure. It would be more than merely unwise—it would not be possible. The place to apply pressure is through the Pharmaceutical Committees. The machinery is there and must be used.

Hospital Salaries

A measure of success has attended the efforts of the hospital pharmacists' representatives in their negotiations on salaries (p. 111), and it will be interesting to see if the change has any effect on recruitment. Even more important is the decision to institute an immediate investigation into career and promotion prospects.

BLACKPOOL CONFERENCE

Session topics and science paper titles

"THE Pharmacist's Responsibility to the Profession and the General Public" and "Pharmacists and the Supply of Veterinary Medicines" are the subjects of the two professional sessions at the British Pharmaceutical Conference, Blackpool, September 11-15. The introductory paper is being presented at the first session on TUESDAY morning by Mr. C. G. Drummond. At the second session on WEDNESDAY morning the speakers are Messrs. F. W. Adams and K. W. Youings. Professor J. B. Stenlake's chairman's address at the opening session on MONDAY morning has the title "Drugs, Poison Arrows or Magic Bullets." Two papers are being presented at the symposium session on FRIDAY morning. Dr. J. A. Savin will deal with clinical aspects and Dr. H. S. Benn with pharmaceutical aspects of "The Microbiological Quality of Topical Creams and Ointments in Pharmaceutical Practice." The Conference lecture, on THURSDAY morning, is being given by Professor R. M. Kenedi (Bioengineering unit, Strathclyde University) on the subject "Biomedical Engineering: Past, Present and Promise."

A new Conference feature is a discussion forum on TUESDAY morning on the subject of "Developments in Drug Distribution and Metabolism Studies." Dr. C. W. J. Brooks will speak on "Gas Liquid Chromatography and Mass Spectrometry of Steroids;" Professor A. H. Beckett on "Application of Analogue Computer Techniques to Drug Kinetics;" Mr. R. L. Smith on "The Biliary Secretion and Enterohepatic Circulation of Drugs," and Dr. Mary Dawson and Mr. W. F. Dryden on "Tissue Culture Techniques in Toxicity Testing."

Papers, authors and time-table for the science sessions are as follows:—

Monday Afternoon, September 11

1. THE EFFECT OF ULTRASONIC ENERGY ON THE AQUEOUS EXTRACTION OF SENNA PERICARPS. *J. C. Morrison and R. Woodford.*
2. SOME EFFECTS OF AMPICILLIN ON GROWING AND GLUCOSE-STARVED CELLS OF *Escherichia coli*. *R. M. Rye and D. Wiseman.*
3. SOME FACTORS AFFECTING THE SIZING AND COUNTING OF *Escherichia coli* WITH THE COUNTER, *R. M. Rye and David Wiseman.*
4. THE EFFECT OF ANTIBACTERIAL COMPOUNDS ON THE ELECTRICAL CONDUCTANCE OF MICELLAR SODIUM DODECYL SULPHATE. *J. T. Pearson.*
5. CRYSTAL GROWTH IN AQUEOUS SUSPENSIONS. *G. Varney.*
6. THE EFFECT OF PARTICLE SIZE ON THE STRENGTH OF SODIUM CHLORIDE TABLETS. *J. A. Hersey, Gunsel Bayraktar and E. Shotton.*

Tuesday Afternoon, September 12

7. BUCCAL ABSORPTION OF BASIC DRUGS AND ITS APPLICATION AS AN *in vivo* MODEL OF PASSIVE DRUG TRANSFER THROUGH LIPID MEMBRANES. *A. H. Beckett and E. J. Triggs.*
8. THE ABSORPTION AND URINARY EXCRETION IN MAN OF FENFENURAMINE AND ITS MAIN METABOLITE. *A. H. Beckett and L. G. Brookes.*
9. BLOOD CONCENTRATIONS OF PETHIDINE AND PENTAZOCINE IN MOTHER AND INFANT AT TIME OF BIRTH. *A. H. Beckett and J. F. Taylor.*

10. NEUROMUSCULAR BLOCKING AGENTS: STRUCTURAL MODIFICATION OF (+) - TUBOCURARINE AND (—) - CURARINE. *I. G. Marshall, J. B. Murray, G. A. Smail and J. B. Stenlake.*
11. SURFACE-ACTIVE BETAINES: *N*-ALKYL-*NN*-DIMETHYLANINE HYDROBROMIDES AND THEIR CRITICAL MICELLE CONCENTRATIONS. *A. H. Beckett, G. Kirk and A. S. Virji.*

Wednesday Morning, September 13

12. THE RATIO OF ORTHOGONAL FUNCTION COEFFICIENTS AS AN INDEX OF PURITY. *I. U. Agwu and A. L. Glenn.*
13. THE GAS CHROMATOGRAPHIC DETERMINATION OF IMIDAZOLINES IN PHARMACEUTICAL PREPARATIONS. *P. F. G. Boon and W. Suds.*
14. A RAPID THIN-LAYER CHROMATOGRAPHIC METHOD FOR THE DETERMINATION OF NOSCAPINE (NARCOTINE) AND PAPAVERINE IN OPIUM AND IN PHARMACEUTICAL PREPARATIONS. *J. W. Fairbairn and Mrs. S. El-Masry.*
15. CHROMATOGRAPHIC IDENTIFICATION OF CANNABIS. *T. J. Betts and P. J. Holloway.*
16. COLORIMETRIC DETERMINATION OF VITAMIN D₂ WITH TRIFLUOROACETIC ACID. *J. A. Clement, St. J. Forbes, C. J. Olliff and A. R. Rogers.*
17. THE CHEMICAL ASSAY OF SOLAPSONE. *J. C. Deavin, R. E. A. Drey and G. E. Foster.*

Wednesday Afternoon, September 13

18. STRUCTURE AND RHEOLOGY OF SODIUM DODECYL SULPHATE-CETYL ALCOHOL-WATER:

CONTINUOUS SHEAR EXPERIMENTS. *B. W. Barry and E. Shotton.*

19. RHEOLOGY OF SODIUM DODECYL SULPHATE-CETYL ALCOHOL-WATER: SMALL STRAIN EXPERIMENTS. *B. W. Barry and E. Shotton.*
20. THE INFLUENCE OF SOAP CONCENTRATION ON THE CREAMING OF AN EMULSION SYSTEM. *E. Shotton and S. S. Davis.*
21. THE STABILISATION OF OIL-IN-WATER EMULSIONS BY THE NON-IONIC SURFACTANT CETOMACROGOL 1000. *P. H. Elworthy and A. T. Florence.*
22. THE RATE OF EVAPORATION OF LIQUIDS FROM BEDS OF POWDER. *K. Ridgway and J. A. B. Callow.*
23. ASSESSMENT OF HOMOGENEITY OF POWDER MIXTURES. *J. A. Hersey.*

Thursday Afternoon, September 14

24. THE INFLUENCE OF pH ON THE BACTERICIDAL ACTIVITY OF THE ISOMERIC MONOFLUOROPHENOLS. *R. J. Pinney and V. Walters.*
25. THE PERSISTENCE OF *Pseudomonas aeruginosa* IN AQUEOUS SOLUTIONS OF PHENOLS. *H. S. Bean and R. C. Farrell.*
26. ADMIXTURE OF OILS AS A METHOD OF CONTROLLING THE ACTIVITY OF PHENOL IN OIL-WATER DISPERSIONS DURING STORAGE AT DIFFERENT TEMPERATURES. *S. M. Heman-Ackah and G. H. Konning.*
27. THE BACTERICIDAL ACTIVITY OF PHENOL IN A SOLID-LIQUID DISPERSION. *H. S. Bean and G. Dempsey.*
28. THE EFFECT OF pH ON THE BACTERICIDAL ACTIVITY OF CRYSTAL VIOLET AND ITS SORPTION BY VARIOUS BACTERIAL SPECIES. *E. Adams.*
29. THE RECOVERY OF PHENYLMERCURIC NITRATE-TREATED BACTERIA USING SODIUM THIOGLYCOLLATE. *J. P. Richards and A. E. E. El Khouly.*

COMPANY NEWS

Previous year's figures in parentheses

J. BIBBY & SONS, LTD.—Group profit after all charges but before debenture interest and tax for half year ended June 30, £747,000 (£631,000). Interim dividend 3 per cent.

SMITH & NEPHEW ASSOCIATED COMPANIES, LTD.—Profit, before tax, for 24 weeks ended June 17, £1,731,000 (£1,656,000). Interim dividend, 3½ per cent. (same).

ALBRIGHT & WILSON, LTD.—The company have arranged through its Canadian subsidiary (Electric Reduction Co., Ltd.) to borrow \$40 m. in North America. The major part of the loan is expected to be used to finance a large phosphorus project in Newfoundland.

PARKE, DAVIS INTERNATIONAL, LTD.—Mr. George T. Nelson has been appointed managing director of Parke, Davis Co., Iran. A comprehensive pharmaceutical plant to manufacture a wide range of the company's specialities is nearing completion in Tehran.

SANITAS TRUST, LTD.—Sales in year ended March 31 were £6·7 million (£6·6 m.) but group profit at £773,700 was down from £1,007,630. Taxation charged £350,500 (£407,464). Dividend unchanged at 40 per cent. Mr. Max Rayne is now chairman of the company.

ILFORD, LTD.—Group profit for half-year ended April 30 after all charges including taxation, £707,228 (£367,226 in corresponding period 1966). Taxation deducted £100,772 (£236,113). The decline in group profit for the half year was due partly to lower parent company turnover combined with reduced export margins

and partly to lower dividends received from associated companies. The lower export margins were accentuated by the greatly increased cost of silver. There will be no interim dividend.

BEXFORD, LTD.—Imperial Chemical Industries, Ltd., are in the final stages of negotiation for the purchase of the holding of Bakelite Xylonite, Ltd., in Bexford, Ltd. Bakelite Xylonite, Ltd., and Ilford, Ltd., have each at present a 50 per cent. holding in Bexford, and I.C.I. has already a substantial interest through its holding in Ilford, Ltd. Bakelite Xylonite, Ltd., is jointly owned by the Distillers Co., Ltd. and the Union Carbide Corporation, New York.

C. OLLEY & SONS, LTD.—Mr. J. J. Inch has relinquished the position of managing director, which he has held for fifteen years. Messrs. N. B. Underhill and H. D. Olley have been appointed joint managing directors and Mr. Inch, who has served the company for over fifty years, remains chairman of the Olley group of companies. M. J. Wood & Sons, Ltd., late of Bow and Stratford, London, have been acquired by the group. All subsidiary companies have now been incorporated at Iberia House, Camperdown Street, Leman Street, London, E.1.

MACARTHYS PHARMACEUTICALS, LTD.—Subject to audit, consolidated profit, before tax, for the year to April 30 was £235,072 (£292,122); taxation, £85,000 (£107,611). A final dividend of 14 per cent. is recommended, which is to be paid also on shares issued in connection with the offer for Savory & Moore, Ltd. (C. & D., July 8, p. 30). Retained pro-

fits £26,472 (£117,914). Consolidated profit figures are not yet available for publication in respect of the trading year ended March 31 for Savory & Moore, Ltd.

BUSINESS CHANGES

SMITH & HILL (CHEMISTS), LTD., have removed to Cresswell Road, Darnall, Sheffield, 9 (telephone: Sheffield 40321) (from Matilda Street).

MR. B. R. VENESS, B.Pharm., F.P.S., has closed his business at 103 St. Giles Street, Norwich and has resigned as secretary of the Norfolk Branch, National Pharmaceutical Union.

SIXTEEN of the seventeen pharmacies acquired by R. Weston (Chemists), Ltd., as from September 1 (see C. & D., August 5, p. 116), will be trading as E. C. Sleep. [Corrected Note.]

THE name of Adox Fotowerk Dr. C. Schleussner, G.m.b.H., Frankfurt, W. Germany, is being changed to Du Pont Fotowerke Adox, G.m.b.H., on September 18.

A. K. STEWART & CO., 1 Lyndoch Place, Edinburgh (proprietor, T. Ross Johnson, M.P.S.), has taken over the business of J. E. Budge 94 Morningside Road, Edinburgh. The business will continue to trade as J. E. Budge.

Appointments

LENTHERIC, LTD., 17 Old Bond Street, London, W.1, have appointed Mr. S. J. Carter a sales co-ordinator.

JEFFERSON CHEMICALS (U.K.), LTD., have appointed Mr. J. J. Glover their general manager. Jefferson Chemicals are currently constructing a plant in Llanelli, Wales, to produce morpholine, piperazine, and related chemicals.

KODAK, LTD., have appointed Dr. Edward Knott deputy head of the Kodak Research Laboratory. He will become head of the laboratory when Dr. D. A. Spencer relinquishes his appointments as director, deputy chairman and director of research on December 31.

PERSONALITIES

MISS I. LEWIS of the accounts department, National Pharmaceutical Union, retired on August 4 after twenty-eight years' service. At one time responsible for members' locum requirements, the surplus stock bureau and the debt collection department, Miss Lewis moved to the accounts department to assist with the setting up and running of the Business Purchase and Guarantee Fund at its inception in 1945. At a farewell gathering at Mallinson House, Miss Lewis was presented with a cheque on behalf of the Executive Committee and with a record cabinet from the staff.

MR. R. LINDSAY, M.P.S., until recently sales director of Apothecaries, Glasgow, branch of Vestric, Ltd., has retired because of ill health. Mr. Lindsay has had a long association with the pharmaceutical industry. He served his apprenticeship with Dandie & Co., Perth, qualifying in August 1930, and joined the New Apothecaries Co. as assistant pharmacist in their retail

branch at 59 Glassford Street, Glasgow. Upon the formation of the limited company in 1934 he became a director and the pharmacist superintendent. When the company became associated with Evans Medical, Ltd., in 1963 he was appointed sales director.

OVERSEAS VISITS

DR. W. F. J. CUTHBERTSON (director, Glaxo Research, Ltd.), flies to Tokyo on August 15 to attend the seventh International Congress of Biochemistry. Earlier in the year Dr. Cuthbertson was granted special leave of absence, as one of three leading nutrition experts, to chair a United Nations panel convened to investigate ways of combating protein malnutrition.

MARRIAGES

MASON — MINFORD.—On July 12, at Ballyrobin House, Muckamore, co. Antrim, Northern Ireland, Edwin Wylie Mason, M.P.S.N.I., Claremont, Ridgeway Park, Portadown, co. Armagh, to Joan Elizabeth Minford, Tirgrace, Antrim.

SHARP — JOHNSTONE.—At St. Filian's Church, Aberdour, Fife, on August 2, James Graham Robertson Sharp, M.P.S., 10 Harley Place, Perth, to Phyllis Ann Johnstone, Burntisland, Fife.

DEATHS

BELENTA.—On July 27, Mr. Laszlo Belenta, M.P.S., 33 Clovelly Avenue, Norbreck, Blackpool, Lancs. Mr. Belenta qualified in 1960.

BRODIE.—On July 26, Mr. Thomas Cecil Ryan Brodie, M.P.S., Gladwyns guest house, Totteridge Lane, London, N.20. Mr. Brodie qualified in 1924.

COOKE.—On July 27, Mr. Albert Cooke, M.P.S., 65 Hilton Lane, Little Hulton, Walkden, Manchester, Lancs. Mr. Cooke qualified in 1931.

COWAN.—Recently, during a holiday cruise, Mr. Sam Cowan, a representative of Pifco, Ltd., Watling Street, Manchester, 4. Mr. Cowan was one of the company's senior representatives and was on the point of retirement after thirty-one years' service in the London area.

DUNDEE.—On August 3, Mrs. Helen Dundee, 45 Carnvue Road, Carnmoney, co. Antrim, widow of the late Mr. Alexander Dundee, M.C., M.P.S., Glengormley, Belfast, Northern Ireland.

DUNN.—In West London Hospital, on July 30. Mr. Reginald James Dunn, M.P.S., 2 Kinnaird Avenue, London, W.4. Mr. Dunn qualified in 1933 and joined Pharmaceutical Specialities (May & Baker), Ltd., in 1936. Later he joined the parent company, May & Baker, Ltd., to work in production, and in 1948 was appointed central planning officer and in turn production planning manager with responsibility for co-ordinating the company's production both at home and in the overseas factories. In 1966 he was appointed to the board of May & Baker (Australia) Pty., Ltd.

FOUNTAIN.—On July 31 Mr. Herbert George Macdonald Fountain,

M.P.S., 22 Lowgate, Gosberton, Spalding, Lincs, aged sixty-seven. Mr. Fountain qualified in 1926 after serving his apprenticeship with Mr. G. A. Johnson, M.P.S., Red Lion Square, Stamford. He moved to Gosberton nearly thirty-four years ago to open his own pharmacy at 93 High Street.

JESSON.—On July 19, Miss Lucy Beryl Jesson, 1 Charles Street, Mansfield Woodhouse, Notts. Miss Jesson qualified as a chemist and druggist in 1926 and retired from the register in 1965.

MOFFAT.—Suddenly on July 30, Mr. William Raleigh Moffat, F.P.S., B.Sc., St. Bede's, Hopetoun Terrace, Gullane, East Lothian. Mr. Moffat was a graduate of Glasgow University and qualified as a Pharmaceutical Chemist in 1931. He held several posts in the pharmaceutical industry and was latterly with Macfarlan Smith, Ltd., Edinburgh, and previously with one of their constituent firms, J. F. Macfarlan & Co. He had been a member of the board of examiners for Scotland since 1949. Mr. Moffat was the son of a pharmacist and was the grand-nephew of the late Mr. J. Rutherford Hill, who was resident secretary of the North British Branch of the Pharmaceutical Society.

RATTRAY.—On June 28, Mr. Alastair Fisher Rattray, M.P.S., 17 Bulloch Avenue, Giffnock, Glasgow. Mr. Rattray qualified in 1933.

INQUESTS

Overdose of Aspirin.—A retired painter and decorator took an overdose of aspirin to ease stomach ache and indigestion, but the overdose caused his death, a Southport inquest heard on August 1. A verdict of death by misadventure was recorded on Thomas Knott, 11 Gloucester Road, Birkdale, aged eighty-seven. The coroner was told that Mr. Knott was found lying fully clothed on his bed at a Home complaining of stomach pains. He said "I've taken too many aspirins." When asked why, he said: "I've taken twenty to ease my indigestion." The coroner was told that Mr. Knott was suffering from aspirin poisoning and five days later he died from hyperstatic pneumonia following the overdose.



ON FIRST FREIGHTLINER: Being loaded aboard one of two new Freightliner containers at the Barking depot of Jeyes Group, Ltd., are 35 tons of Jeyes disinfectants, ammonia, toilet tissues and washing-up liquid. The Jeyes consignment was part of the first Freightliner that left for Sheffield from the Kings Cross terminal. Using the new service is drastically cutting delivery time to outlets throughout Yorkshire.

TRADE NOTES

Now Tax-free.—Bristol Laboratories, Ltd., Astronaut House, Hounslow Road, Feltham, Middlesex, announce that Kantrexil suspension is now free from purchase tax.

Holiday Closing.—Earex, Ltd., 23 Tulketh Street, Southport, Lancs, notify that their works and offices will be closed August 18 to September 4. The company's financial year ends on August 30 and stocktaking takes place on August 31. In future credit notes are being posted on the thirtieth of each month.

Appointed Distributors.—James Hardcastle & Co. (James Hardcastle (Specialities), Ltd.), 430 Edgware Road, London, W.2, have been appointed sole distributors for the United Kingdom of the [American] Perma-Strate hair preparations (hair straightener, hair sheen and liquid pomade). Outside the London area supplies should be obtained from local wholesalers.

Order Office 'Phones.—Martindale Samore, Ltd., Salem Road, Queensway, London, W.2, announce the opening of a new order office and request customers to note the new telephone numbers:— For trade orders, 01-229 1277; for hospital orders, 01-229 6415; for surgical orders and all other departments 01-727 8077. For night and week-end Ansafones either of the first two numbers may be used.

"Doctor" Booklets Up in Price.—The British Medical Association announces that from September 1 the retail price for *Family Doctor* booklets, which has remained unchanged at 1s. since their introduction in 1957, is being increased to 1s. 6d. per copy. To assist the Association's distributors in remarking existing stocks, the warehouse is closed until August 21. Booklets bearing the new price are being dispatched immediately after that period, though invoicing to pharmacists at the revised trade price of 1s. per copy will not begin until September 1. Pharmacists are reminded that the current trade price is eightpence per copy and that the minimum post-free order is 5 doz. copies (orders for less than 5 doz. copies must be prepaid and a penny per copy must be added to cover postage (minimum 6d.)).

Bonus Offers

BAYER PRODUCTS CO., Winthrop House, Surbiton, Surrey. Actal. Twelve invoiced as ten on order comprising of 1 doz. each of the 3s. and 5s. packs or more. Till September 30.

POTTER & CLARKE, LTD., Barking, Essex. Potters catarrh pastilles. Twenty-four free with order for 12 doz. Till October 31.

Premium Offers

GILLETTE SAFETY RAZOR CO., Great West Road, Isleworth, Middlesex. Gillette Foamy shaving cream, and Gillette Right Guard deodorant, 3-oz. size. Two Super Silver blades with purchase of either.

FARLEY'S INFANT FOOD, LTD., Torr Lane, Plymouth, Devon. Farley's rusks. "Golden Key" policy. Four 10s. vouchers (included in packs) enable any parent who can save 5s. a week from the time the baby is a few months old until age twenty-one to give the child a coming-of-age birthday present of £400.

Trade Shows

COTY (ENGLAND), LTD., 3 Statford Place, London, W.1. BRISTOL, Royal hotel, August 14-17. WESTCLIFF-ON-SEA, Queen's hotel, August 14-17. LIVERPOOL, Adelphi hotel, August 14-18. NOTTINGHAM, Victoria hotel, August 14-17. LEEDS, Great Northern hotel, August 14-24. BELFAST, Grand Central hotel, August 14-17. CARLISLE, County and Station hotel, August 16-17.

CULLINGFORD OF CHELSEA, Lunt Avenue, Bootle, Lancs. LEEDS, Griffin hotel, August 14-17. BIRMINGHAM, Midland hotel, August 14-17.

GEORGE SPENCER & SON, LTD., Kynance Place, Gloucester Road, London, S.W.7. LEEDS, Metropole hotel, August 14-17. BIRMINGHAM, Midland hotel, August 14-17.

GOYA, LTD., 161 New Bond Street, London, W.1. BIRMINGHAM, Midland hotel, August 14-17. WESTCLIFF-ON-SEA, Queen's hotel, August 14-17. NOTTINGHAM, County hotel, August 14-17. LEEDS, Metropole hotel, August 14-17. LIVERPOOL, Adelphi hotel, August 14-18.

H. B. DORLING, LTD., Selina's Lane, Dagenham, Essex. WESTCLIFF-ON-SEA, Queen's hotel, August 14-18.

J. C. & J. FIELD, LTD., 225 Bath Road, Slough, Bucks. LEEDS, Griffin hotel, August 14-17. LIVERPOOL, Adelphi hotel, August 14-

18. BIRMINGHAM, Midland hotel, August 14-18.

JACKEL & CO., LTD., Kitty Brewster Estate, Blyth, Northumberland. LEEDS, Great Northern hotel, August 14-17. LIVERPOOL, Adelphi hotel, August 14-17. CARLISLE, Station and Country hotel, August 16 and 17.

JACKEL & CO., LTD., Scottish division, Shuna Place, Maryhill, Glasgow, N.W. DUNDEE, Mathers hotel, August 16 and 17.

JEAN SORELLE LTD., 76 Great Portland Street, London, W.1. WESTCLIFF-ON-SEA, Queen's hotel, August 14-18. BIRMINGHAM, Midland hotel, August 14-18. LEEDS, Metropole hotel, August 14-18.

M. & R. NORTON, LTD., 9 Park Hill, London, S.W.4. LEEDS, Griffin hotel, August 14-18.

MORNY, LTD., 201 Regent Street, London, W.1. LEEDS, Griffin hotel, August 14-17. WESTCLIFF-ON-SEA, Queen's hotel, August 14-17.

SCOTT & BOWNE, LTD., 50 Upper Brook Street, London, W.1. WESTCLIFF-ON-SEA, Queen's hotel, August 14. LEEDS, Queen's hotel, August 14.

SHULTON (GREAT BRITAIN), LTD., 100 Brompton Road, London, S.W.3. BRISTOL, Royal hotel, August 14-18. LEEDS, Griffin hotel, August 14-18. NOTTINGHAM, Victoria hotel, August 14-18. WESTCLIFF-ON-SEA, Queen's hotel, August 14-18.

NEW PRODUCTS AND PACKS

PHARMACEUTICAL SPECIALITIES

Potassium Chloride Supplement.—Camcopot, a new speciality of Camden Chemical Co., Ltd., 61 Grays Inn Road, London, W.C.1, is a new formulation of a potassium chloride supplement in tablet form. The compound has been designed to obviate many of the disadvantages associated with potassium supplements in diuretic therapy. Developed under the auspices of the National Research Development Corporation, Camcopot has the advantage of making potassium supplements more palatable to the patient. It is available in pack of 500 tablets each containing 500 mgm. of potassium chloride (6.5 milliequivalents of potassium) in an inert soluble base. Dosage is 2-3 tablets three to four times daily, in water.

Pre-operation Shaving Foam.—Richmond Chemicals, Ltd., New Road, Winsford, Ches. have developed, for hospital use only, a medicated aerosol shaving foam, Pubicair, specially formulated for shaving the pubic areas. Pubicair has been produced to meet inquiries from many maternity centres for a more up-to-date method than that at present employed (i.e. with a "communal" shaving brush or even dry shaving). Suitably appointed agents are being given the franchise for particular areas. Inquiries should be addressed to the company.

Kaolin With Pectin.—Parke, Davis & Co., Staines Road, Hounslow, Middlesex, are launching an anti-diarrhoeal preparation, Kaogel, on August 14. Kaogel is a fruit-flavoured suspension containing 3 gm. of kaolin and 65 mgm. of pectin in each 15 mls and is indicated for the treatment of non-specific diarrhoea. The components of the product have adsorbent, demulcent and protective actions, and either singly or in combination, have long been used in the treatment of diarrhoea. Kaogel should not be used for more

than two days, in the presence of high fever, or in infants under three years unless directed by a physician. Packs are bottles of 150 and 360 mls.

COSMETICS AND TOILETRIES

New Nail Shades.—Revlon International Corporation 86 Brook Street, London, W.1, announce as new for high summer 1967 a "powder pale nail"—six nail shades "each as pale as powder and as fresh as cream." The six shades are "Breaths" of pink, rose, peach, tan, beige and ivory.

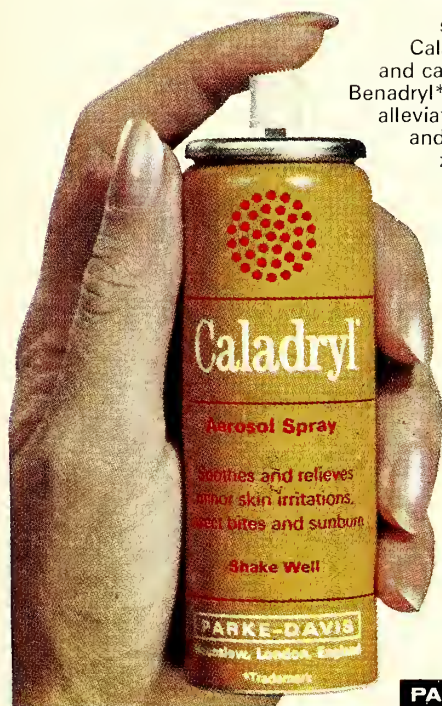
A Foam Bath and Cream Perfumes.—Shulton (Great Britain), Ltd., 100 Brompton Road, London, S.W.3, have launched in their Nina Ricci range "two new devastating ways to take your perfume," the first a sparkling foam bath ("a deep blue liquid that effervesces the water into a foam that acts as tonic and relaxer for the skin") and a perfumed creme that "streaks on" to arms, legs and body.

For "Shaping" the Face.—"Perfect faces don't exist but the illusion of perfection can be created—by high-lighting and shading." So say Lenthéric, Ltd., 17 Old Bond Street, London, W.1, in introducing Shape-makers. The products in silver-lettered white compact with mirror and fluffy brush, are in two shades: "Focuser" and "Shadower," one to highlight and one to shade with. They are applied in light brush strokes, the brush being sized to control the sweep of colour and spread it evenly and lightly. The "Focuser" is used to highlight bones and bring out features (such as chin or temples) that need to be emphasised, or for hiding shadows under the eyes. The "Shadower" adds depth under the cheekbones and minimises features such as a too prominent chin.

INFORMATION WANTED

The Editor would appreciate information about:
1212 anti-mosquito soap.

When summer irritates the skin...



... the new Caladryl* aerosol conveniently and gently sprays on relief—no need to touch sore and tender areas of skin. Caladryl combines the cooling and soothing effects of calamine, glycerine and camphor with the powerful antihistaminic and antipruritic effects of Benadryl* (diphenhydramine hydrochloride B.P. Parke-Davis). It is ideal for alleviating the discomforts of sunburn, prickly heat, insect bites and nettle stings, and is also indicated for relief of irritation associated with urticaria, herpes zoster, rashes and allergic dermatoses. Available in packs of 60 G. Retail price 6/9 plus 1/3 P.T. Also available as a cream and as a lotion.

* Trade mark

New CALADRYL Aerosol Spray

PARKE-DAVIS HOUNSLOW · LONDON · TELEPHONE: 01-570 2361



You said "It won't stack." We said "It'll sell."



It has. Now it'll stack too!

"You've seen the last of that dreary old cardboard outer," says the Elida girl. "The new one makes a super display."



As you know, Harmony's new triangular pack has sold wonderfully well. But it has been hard to stack. So while you've been working on the sales, we've been working on the stacking. And we've come up with a new overwrap outer that helps you in three different ways.

- 1.** Packs are pre-stacked, so you can lay them straight on the shelf.
- 2.** Once stacked, the cardboard part of the outer is rigid enough for you to take out a pack without the whole pile collapsing.
- 3.** The transparent part of the wrap gives you see-at-a-glance stacktaking.

You've helped us a lot with Harmony lately. We hope this new outer helps you.

ELIDA

Paris • Vienna • London
make Sunsilk Shampoo; Sunsilk Hair Spray; Harmony, Melody and Seo Witch Hair Colours; Pin-Up and Twink Home Perms; and Shine — the new spray-on Conditioner.

Cumulative price changes

AMENDING C & D QUARTERLY PRICE LIST FOR JUNE 1967

[illegible]

when prescriptions call for INSULINS, supply

WELCOME brand

● SOLUBLE ● LENTE ● PROTAMINE ZINC ● GLOBIN



BURROUGHS WELLCOME & CO (*The Wellcome Foundation Ltd.*) LONDON

[illegible]

Florineage (475 FG)										Gymsa childs										Juvite (698* Keswick)									
perfumes										adults										rejuvenating tablets									
folkloric doll										raised heel										K2r (1000 PPL)									
462 box of 50 208 4 57 3½ 7 6										21 0ea — 29 11										D K2r (1000 PPL)									
510 box of 10 92 6 25 5 16 6										26 7ea — 31 11										I K2r (1412 Jackel)									
coffret de fleur										spare straps 5 6ea — 8 3										stain remover									
631 box of 20 129 6 35 7 11 6										39 0ea — 58 11										aerosol									
belle flower 10220										Savanto childs 14 0ea — 21 0										D Kako (667 JCL) flashgun									
box of 6 60 0 16 6 17 9										adults 15 0ea — 22 11										Kakonet (667 JCL)									
Forhans (1113 5 & B) existing entry										spare straps 4 7ea — 6 11										flash unit									
Forhans (1113 5 & B)										Harriet Hubbard Ayer (852 Molyneux)										B-type									
toothpaste 92gm 24 3 6 8 3 3										blue kit — — 48 6										Kemi-cetine (227 Erba) T5									
Franol Expect (97 Bayer) †s1s4A										mini-kit — — 28 0										capsules 250mgm									
150mils 56 0 — — —										mascara new silk — — 15 6										100 66 8ea — 100 0									
1 litre 20 4ea — — —										long-lash refill — — 9 6										1000 643 6ea — 965 3									
Fresh 'n Dainty (506 Gerhardt)										Helena Rubinstein (596 HR)										Keswick's (698 Keswick)									
distributors 1054 R&A										Ultra Feminine — — 45 0										vegetable charcoal									
deodorant spray										beauty oil — — 45 0										tablets									
tissues										estrogenic — — 45 0										22 9 6 3 3 3									
Fru-Bran (422 EG)										hormone cream — — 45 0										38 8 10 8 5 9									
16oz 68 3 — 4 10										Hibitane (649 ICI)										70 0 19 3 10 0									
(1½ doz)										antiseptic lozenges†										D Kodak (711 Kodak)									
Fru-Grains (422 EG)										20 16 0 4 5 2 6½										Instantamatic camera									
10oz 26 0 — 2 8										gluconate solution										"154"									
20oz 63 0 — 4 4										20% 1gal 338 0ea — —										109 11½ea 30 3ea 199 5									
(1½ doz)										D Hi-Lift (422 EG) existing entry										Instantamatic movie									
Fullers (3 Abel)										Hi-Lift (422 EG)										camera									
Fullers (800 TM)										honey and yeast										M5 468 0ea 128 8ea 848 8									
Gala (876 MP)										tablets 150 37 9 — 4 6										case									
cuticle cream										350 63 0 — 7 6										799 26 0ea 7 2ea 47 2									
remover										molasses and yeast										Retina camera									
52 5 14 5 7 9										tablets 60 16 9 — 2 0										52 429 0ea 118 0ea 778 0									
Easy Lash										150 37 9 — 4 6										projector Carousel									
matte velvet										300 54 0 — 6 6										5-AV									
leg paint 1084 104 10 28 10 15 6										Hogg's (1323 Westmacott)										1086 8ea — 1630 0									
Gayelord Hauser (234 Cartwright)										Eetle-roach 90gm 14 6 — 1 8										Instantamatic movie									
Gayelord Hauser (29 Alfonsal)										Humagel (938 PD) T5										M55-L 325 0ea — 500 0									
brewers yeast										suspension 150mils 13 2ea — 19 9										M60-L 383 6ea — 590 0									
powder 16oz 60 0 — 7 6										360mils 30 0ea — 45 0										M70-L 643 6ea — 990 0									
dried skim milk										D Hygroton-Reserpine (501 Geigy)										M80-L 773 6ea — 1190 0									
powder 16oz 43 4 — 5 5										Ice Blue (1113 5 & B)										Kopil (667 JCL)									
extra potency yeast										Ice Blue (1524 Chembro)										cameras									
tablets 100 34 0 — 4 3										Icilm (509 Gibbs) vanishing cream										TL-3 — — — 1179 6									
wheat germ 12oz 42 8 — 5 4										Ikoblitz (673 J of H) existing entry										TL-4 — — — 1399 6									
Gevacolor (16 AGL)										Ikoblitz (673 J of H)										TL-6 — — — 1599 6									
negative film N5										flashguns										D camera slimline IC — — — —									
35mm cassette										LD cord — — 40 1										L'Aimant (301 Coty)									
12exp — — 6 11										shoe — — 40 1										dusting powder									
reversal film R5 all sizes										6 cord — — 75 6										de luxe									
Gevapan (16 AGL)										plug in — — 75 6										348 152 9 41 0 22 6									
film roll 127, 120,										M shoe — — 75 6										259-20 84 9 23 4 12 6									
620										cable — — 79 7										260-20 122 3 33 7 18 0									
35mm 36exp — — 7 7										Ikophot (673 J of H)										talcum									
Gillette (514 Gillette)										exposure meter 5 — — 201 8										357 39 0 10 6 5 9									
travel pack 52 1 13 11½ 7 6										CD — — 294 9										L'Air du Temps (Nina Ricci (1131 Shulton))									
Glucio-Fedrin (938 PD)										Ikoscop (673 J of H)										crème parfumée									
Goddess (280 CP)										slide viewer — — 122 0										C.B.3. 10 9ea 2 11ea 19 6									
hairspray standard										Ilford (645 Ilford)										PB1 11 9ea 3 2ea 21 4									
large 46 3 12 7 5 0										cameras										sparkling foam bath									
Goya (532 Goya)										Electric CR 298 7ea 82 1ea 530 0										MB3 15 3ea 4 1ea 27 6									
Piquant										L 339 5ea 93 4ea 602 6										Lancome (726 Lancome)									
Cologne 25cc 57 8 15 5½ 8 6										5R 418 4ea 115 0ea 742 6										Hal-bronze — — — 25 6									
gift size 62cc 86 6 23 2½ 12 9										case 28 5ea 7 10ea 50 6										Hal-filtre — — — 18 3									
luxury 170cc 113 8 30 5½ 16 9										Elmo C-200 1142 7ea 314 2ea 2028 0										Hal-sport — — — 25 6									
spray 62cc 110 3 29 6½ 16 3										Ilfomatic universal										D Filtre Solaire — — — —									
stick 20gm 38 5 10 3½ 5 8										50 24 6ea 6 9ea 43 6										Sunspot — — — —									
creme perfume										case 7 9ea 2 1ea 13 9										Largactil (971 P5MB)†s48									
flowette 55 11 14 11½ 8 3										Monarch 247 8ea 68 1ea 439 7										tablets 10mgm 50 28 0 — 3 6									
eau de toilette										Sportsman 300 160 11ea 46 1ea 287 6										25mgm 500 19 8ea — 29 6									
25cc 72 11 19 6½ 10 9										case 24 11ea 6 8ea 44 2										50mgm 500 32 2ea — 48 3									
perfume miniature										flashgun Ilfotflash 7 9ea 2 1ea 13 9										100mgm 500 61 8ea — 92 6									
gift size 125 6 33 7½ 18 6										Imferon-D (1530 Fisons)										500 115 0ea — 172 6									
royal flacon										disposable syringes										Laryncol (835 M & J)									
spray 855 0 229 3 126 0										5×5mils 31 3ea — 46 11										throat spray metered									
Guards (994 P & M)										Impora (1569 SAC)										44 2 — 4 11									
after shave lotion										body oil 170gm — — 17 6										D Layla (1000 PPL)									
deodorant stick										Imprevu (301 Coty)										I Layla (1412 Jackel)									
hair cream 39 4 10 10 5 10										soap (1) 282.09 36 10 9 10½ 4 11										D nail enamel transparent									
pre-shave lotion										(3) 110 6 29 8 14 9										D Lectric Shave (1113 5 & B)									
shaving soap 51 5 14 2 7 7										Ingram (172 BMCL)										I Lectric Shave (1524 Chembro)									
talcum powder 41 0 11 4 6 1										Lanolin Gold shave cream										Lederstatin (746 Lederle) T5									
Guerlain (548 Guerlain)										Iso-Rapid (16 AGL)										capsules 300mgm									
film spray lotion — — 39 6										camera C — — 113 11										16 26 0ez — 39 0									
sun kit bag — — 19 6										outfit — — 161 8										100 155 4ea — 233 0									
Gumtux (1413 P & S)										Jack Tar (1335 Wigglesworth)										500 748 8ea — 1123 0									
(distributors 1545 Vestric)										oil & tar remover										suspension									
Habanita (Molinar (960 ADP))										4oz 16 0 — 2 6										2oz 9 0ea — 13 6									
perfume 2704 62 6ea 16 10ea 117 6										Jeypine (671 Jeyes)										Kamera Klear									
presentation 2507 25 6ea 6 10ea 47 6										disinfectant										cheek tint									
2506 38 6ea 10 4ea 73 6										economy 31 6 — 3 6										cream powder									
2505 60 6ea 16 3ea 112 6										Jintan (5 Actabs)										eye liner									
2504 95 6ea 25 7ea 175 0										breath refresher										eye shadow									
concreta single										pearls 200 36 0 9 11 2 6										cream									
boule 9 10ea 2 8ea 17 9										(2doz) (2doz)										face powder									
Haemorex (333 Cupal)										I Johnny Bunny (203 Brynn)										face shaper									
30 0 7 5 4 6										cough mixture 21 0 5 1 3 0										glow tone									
Halax (80 BXL)										pastilles 10 0 2 8 1 6										lipstick									
ladies brush sets										Jussy St. James (475 FG)										mascara block									
engine turned										perfumes										tinted foundation									
3-piece E695 292 0 80 4 43 3										small plush										anti-acne facial pack, cream & lotion									
Hall's (1511 IWV)										animal 730										Beauty Touch compact & refill									
wine bottle 171 6 — 18 0										box of 50 166 8 45 10 5 11										blood congealed 701									
Happy Feet (1383 MFCC)										petite lamp B22										cream eyeshadow 281									
Danish exercise clogs										box of 50 110 0 30 3 3 11										eye cosmetic & brush 606									
Aurora										piano grand 539										eyeliner 296									
brown suede 32 0ea — 48 0										box of 12 85 0 23 4½ 12 6										kamera klear base 350 & 351									
white calf 33 0ea — 49 11										royal coach 339										night cream patti 253									
Brigita 39 6ea — 59 11										box of 12 160 0 44 0 23 8										poudri de luxe 100									
Georgina 39 6ea — 59 11										violin 725 27 6ea 7 7ea 49 6										spirit gum substitute 1065									
exercise sandals										bellows 784 26 6ea 7 3½ea 47 9										vitamin skin food 222									
Britta ladies 42 0ea — 63 0																				D Lentheric (753 Lentheric)									
																				12 eau de toilette									
																				2oz — — — 42 0									
																				4oz — — — 77 6									
																				8oz — — — 122 6									

[illegible]

[illegible]

Suba-Seal (479 WF)						over-blanks all-night						Xerumenex (878 Napp)					
baby feeders boil-						New Era 80x60						ear drops 12mils 72 0 19 10 9 8					
able plastic com-						80x80						Yardley (1355 Yardley)					
plete with silicone						D Throaties (64 AW)						eyelighter 85 0 23 4 12 7					
teat						Throaties (64 ACL)						face base 46 0 12 7 6 10					
narrow neck						Topnote (1157 S)						face finish 44 0 12 1 6 7					
8oz IC60 39 6 — 4 11						D bobby rollers						face kit brush 25 0 6 10 3 9					
wide neck 8oz						D flexi rollers						liplighter 85 0 23 4 12 7					
IC61 43 6 — 5 5						D Top Score (147 Boots) existing entry						lipstick Sukipearl					
complete with						I Top Score (751 LL)						568 42 0 11 6 6 3					
Suba Clear teat						hand care 30cc 14 2 3 10 2 1						Yeast-Plus (447 PF)					
narrow neck						57cc 19 9 5 6 2 11						extra energy					
8oz IC62 45 6 — 5 8						115cc 32 1 8 10 4 9						tablets 50 35 0 — 4 6					
wide neck 8oz						Tosca (1113 S & B)						D Yestamin (422 EG) existing entry					
IC63 51 6 — 6 5						bath cubes 9116 34 3 9 5 7 1						I Yestamin (422 EG)					
breast reliever						eau de Cologne						powder 8oz 35 9 — 4 3					
IC3 74 4 — — —						aerosol 1185 133 9 36 9 19 10						16oz 52 6 — 6 3					
enema IC16 85 0 — — —						D Tri-Adcoryl (1176 Squibb)						7lb 21 2ea — 30 3					
hot water bottles						ointment 5mg						14lb 39 11ea — 57 0					
Suba-Royal 68 0 — 8 6						Trombovar (93 B)						50 16 6 — 1 11					
Suba-Line 68 0 — 8 6						ampoules 2cc 3%						100 23 0 — 2 8					
Bara Royal 68 0 — 8 6						10 32 5ea — —						300 50 6 — 6 0					
Baraline 68 0 — 8 6						multivital 25mils 3%						1000 6 3ea — 9 0					
soother all rubber						1 31 2ea — —						2500 15 9ea — 22 6					
IC53 8 8 — 1 1						12 374 0ea — —						5000 30 0ea — 42 9					
syringe whirling						Tuinal (413 Lilly) ts154A						18000 87 0ea — 124 0					
8oz 115 3 — 14 3						Pulvules						Zam-Buk (1530 Fisons)					
teething trainer						100mgm 100 6 1ea — 9 1						ointment family 61 8 16 11 8 2					
rubber IC38 10 0 — 1 3						200mgm 100 9 11ea — 14 10											
polystyrene 5A3 8 0 — 1 0						5000 285 0ea — 427 6											
silicone IC52 34 0 — 4 3						5000 444 7 ea — 69 6											
Suede (981 Picot)						Ultranalun (1479 SCL) TS						AMENDMENTS AND ADDITIONS					
perfume 1/2 oz 92 6 25 5 13 9						ointment 50gm 20 2ea — 30 3						TO KEY TO SUPPLIERS					
Sulphamagna (1352 Wyeth) ts4B						plain 50gm 19 2ea — 28 9						5 Actabs=Actabs division of Acton Pill & Tablet Co					
suspension (vet.)						Urovision (1479 SCL)						Ltd., Orlestone Mews, London, N.7. 01-607 0022.					
12oz 11 3ea — 15 0						ampoules 25mils 5 40 0ea — —						29 Alford=Alfonal, Ltd., Alfonal House, Meadrow					
2litre 65 8ea — 87 6						25mils 20 152 0ea — —						Farncombe, Godalming, Surrey. Godalming 3941.					
Suscandia (972 Pharmax)						vials 50mils 5 72 1ea — —						64 AC=Arcadian Confections, Ltd., Crediton, Devon					
ampoules 6 8 9ea — —						50mils 20 273 3ea — —						Crediton 2251.					
Sweetex (751 LL)						Vaseline (256 CPL)						113 Bencard=Bencard, Beecham Research Lab					
liquid 1oz 22 6 — 2 6						shampoo						oratories, Ltd., Great West Road, Brentford, Middle					
powder 4oz 27 0 — 3 0						cream bottle						sex. 01-560 5151.					
1lb 81 0 — 9 0						70gm 21 5 5 11 2 11 1/2						203 Brynn=Brynn Manufacturing Co., Ltd., Wiga					
tablets 100 9 0 — 1 0						123gm 31 1 8 6 1/2 4 4						Road, Ashton-in-Makerfield, Lancs. Ashton-in-Makerfield					
200 15 9 — 1 9						70gm 21 5 5 11 2 11 1/2						77443.					
500 33 9 — 3 9						123gm 31 1 8 6 1/2 4 4						336 Curacho=Curacho Co., The Old Drive, Vicarage					
Syrtussar (61 APC) †						lemon bottle						Lane, Horley, Surrey. Horley 4311.					
syrup 4oz 5 0ea 1 4 1/2ea 8 11						70gm 21 5 5 11 2 11 1/2						361 Dearborn=Dearborn (1923) Ltd., Kingsway					
40 oz 36 0ea 9 10 1/2ea 63 11						123gm 31 1 8 6 1/2 4 4						House, Paradise Road, Richmond, Surrey.					
Tanderil (501 Geigy) ts4B						medicated bottle						447 PF=Phillip Farrington, Ltd., The Homestead					
suppositories 5 9 2ea — 13 9						70gm 21 5 5 11 2 11 1/2						St. Elmo Avenue, Offerton, Stockport, Ches. Stepping					
50 73 4ea — 110 0						123gm 31 1 8 6 1/2 4 4						Hill 6979.					
D Taylor of London (1541 T of L) existing entry						V-Cil-K (413 Lilly)						475 FG=Four Gee's (Woburn) Ltd., Woburn Green					
I Taylor of London (1541 T of L)						tablets 60mgm 100						High Wycombe, Bucks. Bourne End 21594.					
bath essence 2oz 12 0ea 3 7ea 23 0						Veramix (1263 Upjohn) ts4B						492 Gambatra=Gambatra, Ltd., 11 Centurion Road					
4oz 22 6ea 6 7ea 42 0						sheep sponge 20 133 4ea — 200 0						Brighton, 1. Brighton 29449.					
10oz 42 0ea 12 2ea 78 6						D Vital (76 Atkinson)						505 GFL=General Foods, Ltd., Maxwell House, Banbury					
bath oil 1oz 13 6ea 3 7ea 25 0						Vitalpointe (1530 Fisons)						Oxon. Banbury 4433.					
perfume 1/2 oz 11 0ea 3 4ea 21 0						hair conditioner 17 6 4 9 1/2 2 7						512 GF=Giles Farnaby of London, Ltd., 43 Dove					
1oz 18 6ea 5 6ea 35 0						shampoo 26 4 7 3 3 9						Street, London, W.1. Hyde Park 9435.					
1/2 oz 32 6ea 9 11ea 63 0						cream sachet 6 2 1 8 1/2 10						629 HL=Howard Lloyd & Co., Ltd., 103 Mount Street					
pomanders Chelsea 35 6ea 9 11ea 63 0						bottle 21 6 5 11 3 0						London, W.1. Grosvenor 6801.					
pomanders Wedgwood						liquid sachet 6 2 1 8 1/2 10						646 El=E. Illingworth & Co. (Bradford), Ltd., Shel					
Hathaway Rose,						bottle 21 6 5 11 3 0						Mills, Shelf, Yorks. Bradford 676261.					
Country Garden						D Voigtlander (673 J of H) existing entry						751 LL=Lenbrook Laboratories, Ltd., 1 Thane Road					
Blue or Green						Voigtlander (673 J of H)						West, Nottingham. Nottingham 56111.					
Jasper 47 6ea 13 0ea 84 0						cameras						768 LA=Lloyd Anphar, Ltd., 103 Mount Street, London					
Blue Jasper Bowl 70 0ea 19 3ea 126 0						Bessy S — — 259 4						W.1. Grosvenor 6801.					
pot-pourri 2oz 7 0ea 1 11ea 12 6						AK — — 683 8						769 LH=Lloyd-Hamol, Ltd., 103 Mount Street, London					
4oz 10 0ea 2 9ea 17 6						Bessamatic — — 3085 1						W.1. Grosvenor 6801.					
8oz 15 6ea 4 3ea 27 6						Color Skopar f2-8 — — 2381 10						770 LP=Lloyds Pharmaceuticals, Ltd., 103 Moun					
mist aerosol 10 0ea 2 11ea 18 6						Septon f2-0 — — 3005 1						Street, London, W.1. Grosvenor 6801.					
sachets scented (3) 7 0ea 1 11ea 12 6						Ultramatic CS — — 2946 11						793 MFL=Mapletons Foods, Ltd., Moss Street, Garston					
(6) 10 0ea 2 11ea 18 6						Color Skopar f2-8 — — 3524 6						Liverpool.					
soap toilet (3) 8 6ea 2 7ea 15 0						Septon f2-0 — — 424 4						832 MW=Meggeson-Warrick (division of White					
guest (6) 10 0ea 2 11ea 18 6						Vito C — — 475 5						Laboratories, Ltd.), Penarth Street, London, S.E.15					
bath (3) 14 0ea 3 11ea 25 0						Color Lanthar — — 848 9						New Cross 7878.					
talcum 3 1/2 oz 5 0ea 1 6ea 9 6						Vito CLR — — 943 0						957 Perl=J. L. Perl, Ltd., 14 Westbourne Crescent					
toilet water 2oz 9 9ea 2 11ea 18 6						Color Lanthar — — 1078 9						London, W.2. 01-723 6100.					
4oz 17 6ea 5 1ea 32 6						Color Skopar — — 754 5						994 P & M=Potter & Moore, Ltd., Seymour Road,					
10ea 35 0ea 10 2ea 65 0						Vitomatic 11B — — 848 9						London, E.10. Leytonstone 3334.					
for men						Vitorot — — 1284 11						1123 SLL=Selpharm Laboratories, Ltd., Percival					
after shave 4oz 14 6ea 4 3ea 27 6						D — — 318 4						House, Pinner Road, Harrow, Middlesex. 01-427 9741.					
Cologne for men 4oz 18 6ea 5 1ea 35 0						F — — 518 8						1201 Supervite=Supervite Manufacturing Co., Ltd.,					
eau de Cologne 4oz 10 6ea 3 0ea 19 6						DR — — 377 3						107 Great Eastern Street, London, E.C.2. 01-253 0822					
eau de Portugal 4oz 10 6ea 3 0ea 19 6						L — — 624 10						1228 TAL=Thermoset Appliances, Ltd., Chapel Works,					
Florida water 4oz 10 6ea 3 0ea 19 6						Rapid D — — 671 11						Evening Street, Failsworth, Lancs. Failsworth 1630.					
lavender water 4oz 10 6ea 3 0ea 19 5						projectors — — 565 10						1253 Typharm=Typharm, Ltd., 439 Richmond Road,					
Teak (1131 Shulton)						Perkeo Automat S — — 850 0						Sheffield, 13. Sheffield 397260.					
hair friction 95 9 25 8 14 6						J — — 975 0						1281 Vincent=L. E. Vincent & Partners, 10 Haymarket,					
soap single 59 3 15 11 9 0						AF — — 1580 0						London, S.W.1. 01-839 5445.					
Teatcote (649 ICI)						J150 — — 1070 0						1369 WSHL=Wilfred Smith (Horticultural), Ltd.					
teat spray/dip (vet.) 1 gal 19 6ea — 26 0						Perkeo ML — — 567 6						Gemini House, High Street, Edgware, Middlesex					
D Tenormal (649 ICI) tablets						Warricks (994 P & M)						01-952 6655.					
The Blue Train (981 Picot)						Warricks (832 MW)						1383 MFCC=M.F.C.C., Ltd., 14 New Meeting Street					
perfume 1/2 oz 80 6 22 2 12 0						Wellcome (208 BW)						Birmingham, 4. 021-643 4588.					
Thermoset (1228 TAL)						milk ring test (vet.) VPO 100 — — 39 3						1393 BRL=Beecham Research Laboratories, Great					
electric blankets						D Williams (1113 S & B)						West Road, Brentford, Middlesex. 01-560 5151.					
Regent 48x26 — — 67 11						Williams (1524 Chembro)						1446 Pearmoss=Pearmoss, Ltd., 53 Great Marlborough					
48x44 — — 91 5						Wiz Set (888 Newey)						Street, London, W.1. 01-437 3102.					
Everest 50x26 — — 88 11						heated hair rollers (8) 7 4ea 2 2ea 13 6						1540 SDR=S. D. Rand, Ltd., 29 Beak Street, London					
50x44 — — 119 10												W.1.					
Cozee 62x26 — — 101 11												1563 SHBS=Swiss Home Beauty Services, 188 Church					
62x50 — — 148 7												Road, Hove, 3. Sussex. 0273-7773 13.					
all-night Ambassador 28/30x62 — — 310 5												1593 Ambassadors=Ambassador Toilet Preparations					
54/56x62 — — 595 5												Ltd., 3 Gt. James Street, London, W.C.1. Chancery					
												8946.					
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MEDICAL RESEARCH COUNCIL

Review of 1966-67 research

THE report of the Medical Research Council for 1966-67 records the Queen's assent (given on October 26, 1966) to the Council's revised charter, which provides for an increase in membership of the Council to a maximum of sixteen. All members are now appointed by the Secretary for Education and Science who, under the Science and Technology Act, 1965, has assumed the responsibilities of the former Privy Council committee for medical research.

Shortly after the promulgation of the new charter, Lord Platt and Sir Harold Himsworth were appointed members of the Council, the latter *deputy chairman*. A GEC 90/300 computer has been ordered to be installed in accommodation near King's Cross, and a new unit is being centred on the machine so as to provide a computing service and undertake research on the application of computer methods to biomedical investigations.

During the year research into malaria at the National Institute for Medical Research expanded rapidly. Malaria organisms have been found capable of undergoing antigenic variation of a type analogous to that responsible for the relapsing pattern of trypanosomiasis. The orthodox immunological defences against malaria organisms are thus in a sense outwitted by the adoption of a new disguise. The problem of conferring active protection against malaria, says the report, turns on the isolation and identification of human malarial antigens, which in turn depends on the cultivation of human malarial organisms. Close collaboration is being maintained with the Council's laboratories in the Gambia.

Possible Precursors of Thiamine

The possible biosynthetic precursors of thiamine are being narrowed down, and a satisfactory degree of radioactive labelling of vitamin D has been accomplished — an indispensable first step in the analysis of its fate in the body. In the field of hormone research it has been proved that oxytocin and vasopressin can be independently released. Formerly the belief was that they were simultaneously released.

During the past year the Institute has further enlarged and developed services concerned with the standardisation of biological agents and the safety control of immunological products, work which it carries out on behalf of the Ministry of Health and the World Health Organisation.

The Council's unit for research on drug sensitivity in tuberculosis has shown that regimens of thiacetazone and isoniazid are equally as effective as a combination of para-aminosalicylic acid (PAS) and isoniazid and more acceptable as well as much cheaper in East Africa, where they provide the standard treatment. Outside East Africa natural resistance to thiacetazone in the tubercle bacilli occurs in several Asian countries. Gross irregularity of self-administered drug taking, even in apparently co-operative patients, has led

to the development of regimens in which streptomycin and isoniazid in high dosage are given twice weekly or even once weekly under full supervision of the staff of out-patient clinics, and are claimed especially suitable for areas with a high density of population.

Attempts are being made by the neuroendocrinology research unit to establish the site and mechanism of action of certain chemical contraceptives. It has so far been established that, in the guinea pig, Nilevar inhibits the surge of luteinising hormone secretion associated with oestrus and ovulation. Chlormadinone, which curtails the ovarian response after mating in the rabbit, has been found to act at some site in the central nervous system rather than on the pituitary or ovary.

In the neuropharmacology research unit iontophoresis (movement of ions in an electric field) is being used to study the actions of drugs on the central nervous system. Multibarrelled micropipettes allow small quantities of the ions of drugs to be placed in the immediate proximity of single neurones in the brain, whose electrical activity can be continuously recorded. The disadvantage of more remote injections of drugs, for instance into the blood, are thus excluded and a situation more akin to a naturally occurring one is created.

Regarded as Synaptic Transmitters

Substances thought to be synaptic transmitters, in particular acetylcholine, noradrenaline and 5-hydroxytryptamine (5HT), have been examined. In some parts of the brain the neurones exhibit a great diversity of pharmacological responses; but recently an attempt has been made (by testing neurones in a region of the brain stem known as the paramedian reticular nucleus with acetylcholine, noradrenaline and 5HT) to relate pharmacological to physiological properties and it has been shown that nerve tissue in that part of the brain reacts on the whole in a uniform way, being excited by acetylcholine and 5HT but inhibited by noradrenaline. Thus uniformity of function may sometimes be associated with some degree of uniformity of pharmacological response. Certain drugs used in psychiatric treatment (pentobarbitone, amphetamine, lysergic acid diethylamide (LSD 25), and chlorpromazine) have also been studied. Those drugs may interfere with or modify the actions of the synaptic transmitters. Chlorpromazine appears not only to have an inhibitory action of its own on certain neurones in the brain stem but also possibly to modify the actions of adrenergic transmitter substances. Though the method of action of the newer sedative and stimulant drugs is not directly applicable to clinical effects in man, little is known about it and the basic work that is being done is understood to be adding useful information.

Apart from the computer unit in London, one other new unit has been created during the year—the blood-

pressure research unit at the Western Infirmary, Glasgow (the former atheroma research unit).

Finances

The Council's Parliamentary grants-in-aid for the year ended March 31 amounted to £11,831,000 for general expenses and capital expenditure, and £54,000 for the United Kingdom subscription to the International Agency for Research on Cancer. Of the combined total £11,824,787 was drawn. It was augmented by £1,016,039 in the form of subventions from Government departments and other public bodies and contributions from other sources.

New and Valuable Technique

A new and valuable technique recently became available that can be used in man for determining the viability of *Mycobacterium leprae* in patients and of precisely assessing their response to chemotherapy, the infectivity of the various types of leprosy, and (by histological studies) the viability of the mycobacterium in different tissues. That is the "morphological index" the percentage of solidly staining bacilli seen in smears or sections from leprosy patients. It has been shown to be a measure of viability of the organism. The technique has made it possible to show that a high proportion of bacilli are killed in three months in patients receiving standard treatment with dapsone, suggesting that persisting lesions and many of the manifestations of leprosy, including reactions of the erythema-nodosum type, that follow the initial phase of chemotherapy, must be due, in part, to dead rather than to living bacilli. The finding implies that a more rapid cure will depend on the discovery of other drugs or methods that can be used after the initial killing of leprosy bacilli with standard antileprosy drugs so as to enhance the host's ability to dispose of dead, but still intact, leprosy bacilli. The morphological index also provides a sensitive measure of the patient's deterioration, whether due to failure to take the drug or to the emergence of drug resistance. Also in the field of leprosy research the production of *Myco. leprae* infection in the mouse foot-pad has enabled a wide range of chemotherapeutic agents to be screened; the protective effect of B.C.G. vaccine to be demonstrated; the resistant strains of *Myco. leprae* to be detected in a proportion of relapsed cases; and direct evidence to be obtained that degenerate forms of *Myco. leprae* are non-infectious. The transmission of *Myco. leprae* to animals can, however, still be carried out only on a small scale because of the limited nature of the infection. On the assumption that the limiting factor was most likely to be an immunological one, Rees was successful in enhancing the foot-pad infection by means of techniques known to diminish the immunological response of the host. The new findings provide, for the first time, a high yield of *Myco. leprae* in the laboratory. A new source of the organisms thus becomes available for experimental study.

(To be concluded)

HAEMODIALYSIS SOLUTIONS

Its production in large quantities

J. A. MYERS, B.Pharm., F.P.S., LL.B., D.P.A., F.C.C.S. (Group chief pharmacist, Edinburgh Royal Infirmary)

ABOUT two years ago, in the Edinburgh Royal Infirmary, the problem of producing large quantities of electrolyte solution suitable for haemodialysis became acute. At that time two types of artificial kidney machines were in use: Baxter's twin disposable coil machine, and Sweden Freezer machines. The usual procedure for the Baxter's machine was to weigh out the following quantities of chemicals into screw-capped bottles:—

FORMULA 1

Sodium chloride B.P. ...	660 gm.
Dextrose anhydrous, B.P. ...	400 gm.
Sodium bicarbonate, A.R. ...	225 gm.
Potassium acetate (lab. reagent) B.D.H. ...	34.3 gm.
Calcium acetate, dried (lab. reagent) B.D.H. ...	20 gm.
Magnesium acetate, hydrated (lab. reagent) B.D.H. ...	10.4 gm.

Over 1,800 bottles were needed every six months. Each set of six bottles was sufficient to produce 100 litres of dialysis solution. Before use the sodium and potassium content was checked (potassium 4 M/Eq per litre, sodium 128-134 M/Eq per litre). Lactic acid was added to adjust the pH to 7.4 approximately. A mixture of 10 per cent. carbon dioxide in oxygen was bubbled through the solution to maintain the pH at 7.39 to 7.40. During dialysis the solution was replaced with fresh solution every two hours.

Patients suffering from acute kidney failure are usually dialysed for about six hours daily for several days using a twin sterile disposable kidney coil. At the present time patients suffering from chronic renal failure are dialysed two or three times weekly using sterile single disposable coils (Baxter's Chron-A-Coils) as above or on Kiil sandwich-type machines (Sweden Freezer, Ltd.) using sheets of sanitised Cuprophane as the semi-permeable membrane. The Chron-A-Coil baths are prepared by diluting 3.55 litres of a "30x concentrated" solution (see below) to 100 litres with tap water. The bath solution is changed after three and six hours.

Concentrated Solutions

The sandwich-type machines are now fed with dialysing solutions from plastic tanks containing 750 litres of "30x concentrate" diluted with tap water. Since the solution flows through each sandwich at approximately 500 mls. per minute, a plentiful supply of quickly prepared haemodialysis solution is vital to the operation of the system. During the past six months over 360,000 litres of haemodialysis solutions have been made, and the figure is likely to quadruple within the next two years.

FORMULA 2: KIDNEY BATH SOLUTION (30x Concentrated)

Sodium acetate ($\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$) (lab. reagent) ...	35.660 kilos
Sodium chloride, B.P. ...	41.666 kilos
Dextrose anhydrous, B.P. ...	15.000 kilos
Potassium acetate (lab. reagent) ...	2.212 kilos
Magnesium acetate (CH_3COO) ₂ Mg. $4\text{H}_2\text{O}$ (lab. reagent) ...	1.200 kilos
Calcium acetate, dried (lab. reagent) ...	1.500 kilos
Tap water to ...	250 litres

When we first started producing these solutions (using a stainless steel ship's propeller-type of stirrer operated by a 1-h.p. motor) it took three or four hours' stirring to dissolve the powders. A Carlson filter press had then to be assembled and the solution pumped through. The whole process was slow and cumbersome and occupied a senior pharmacist most of the day in producing 300 litres of "30x concentrated" solution.

It was considered that to utilise the powerful disruptive forces of "ultrasonic cavitation effects" might speed up the

rate of solution. The idea was to pump a powerful jet of an aqueous suspension of the salts against the edge of a thin stainless steel blade, clamped at one end (fig. 1) so that the free portion of the blade was caused to vibrate. The high speed of vibration would alternately create a vacuum cavity on one side and pressure on the other. The salt particles would be broken into smaller fragments, thus exposing a larger surface area to the aqueous solvent.

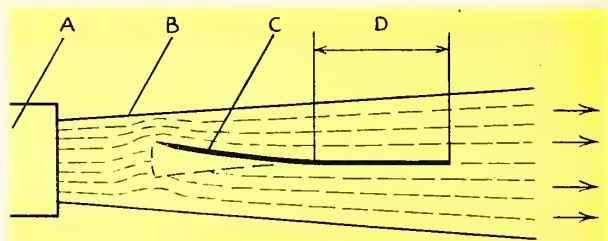


Fig. 1: Diagrammatic section through the vibrating element. A=jet; B=liquid stream; C=vibrating blade deflected, showing cavity formed; D=clamped portion of blade.

A Compact Machine

Ultrasonics, Ltd., were consulted, and eventually a compact machine was devised that would dissolve all the solid ingredients for 250 litres of a "30x concentrated" batch in about one hour. At the turn of a stopcock the "concentrate" is filtered through a filter cartridge direct into the final 25-litre plastic containers. It takes 40 to 50 seconds to filter 25 litres into each container. The filter is a Sethco wound Dynel cartridge (3 micron) with perforated polypropylene cone. It can be used for filtering over 10,000 litres before replacing. The filter is removed and dried if it is not required for one or two days. This combination of a rapid solution production machine with a high speed, high efficiency filtering unit has produced a very versatile space saving piece of equipment.

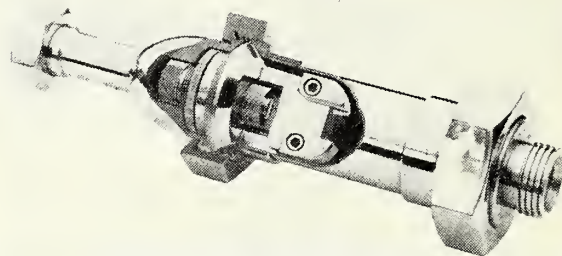


Fig. 2: Vibrating element with casing cut away to show working parts.

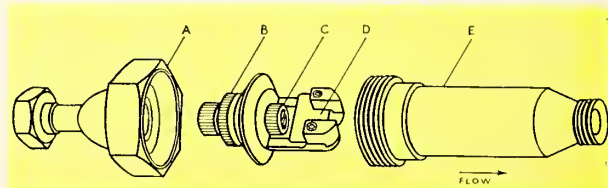


Fig. 3: Diagram of the vibrating element. A=base; B=adjustable jet body; C=jet insert; D=vibrating blade; E=resonant bell.

Method of Operation

About 150 litres of tap water is run into the graduated stainless steel tank "F" and the pump is switched on. The

water flows from the bottom of the tank into the impeller-type pump "O" which pumps it up through an ultrasonic whistle "H" and back into the tank. The whistle emits a characteristic sound. The lump-free powdered salts are slowly added in the order written. Solution is almost complete by the time the liquid flows back into the tank. The operator will notice a change in the note emitted from the ultrasonic whistle if the salts are being added too quickly. Within a few seconds the whistle sound returns to normal when powder additions are temporarily discontinued. If the powders are added too quickly it is possible to overcharge the pump with solid matter. To avoid pressures building up, an automatic cut out "J" switches off the motor. When all the powders have been added, the solution is made up to 250 litres and recirculated for a few minutes. Handle "K" is turned so that the solution is then pumped through the filter cartridge back into the tank. Safety valve "L" is a pre-set pressure-release valve. A sample of the solution is now taken for check analysis. When approved, the liquid is pumped into the final tared 25-litre plastic containers. Before issue, each 25-litre container is check-weighed on an Avery automatic self-indicating machine to make sure the bottles contain the exact weight required.

Check analysis is carried out for total chlorides. Sodium, potassium, magnesium and calcium ion estimations are carried out on a Unicam SP.90 atomic absorption spectrophotometer.

The composition of Edinburgh tap water (in parts per 100,000) is as follows:—

	Max.	Min.	Aver.
Total solid matter	9.14	5.26	7.18
Organic and volatile matter	2.29	0.46	1.24
Mineral matter	8.23	4.80	5.94
Chlorine in chlorides	1.01	0.66	0.76
Phosphates	—	—	—
Iron	—	—	—
Lead or other poisonous metals	—	—	—
Nitrogen in nitrates	—	—	—
Nitrites	—	—	—
Saline ammonia	0.001	—	—
Albumenoid ammonia	0.001	—	0.001
Oxygen absorbed at 80°F. in 4 hrs.	0.206	0.016	0.141
Total hardness	4.3	3.1	3.7
Temporary hardness	2.7	1.1	2.1
pH	7.5	6.8	7.1

The "30x concentrate" is liable to corrode most metals, so the machine has been manufactured from stainless steels designed to resist corrosion. The tubing, tank and ultrasonic whistle case are fabricated from EN58J.(F.M.B.) stainless steel, composition 0.06 per cent. carbon, 0.4 per cent. silicon, 1.5 per cent. manganese, 17.6 per cent. chromium, 11.5 per cent. nickel, 2.8 per cent. molybdenum and iron to 100 per cent. The ultrasonic "blade" is made from "blade" steel (ref. F.S.T. composition 0.08 per cent. chromium, 0.6 per cent. silicon, 1.0 per cent. manganese, 18 per cent. chromium, 9.2 per cent. nickel.) The pump rotor is of stainless steel and the stator of Neoprene. The pump is powered with a 3-h.p. electric motor.

Avoiding Electrolysis

It is important to avoid joining two different metals together since such couples when bathed in strong electrolyte solutions can generate an electric current that will slowly electrolyse the metal away. It is essential to drain away all electrolyte solution after use and to flush the machine thoroughly with tap water. Screw joint threads (lubricated with silicone stopcock grease) and gaskets should be kept well tightened to avoid electrolyte-solution seepage and the whole machine should be dismantled and examined for signs of corrosion at three-monthly intervals.

This ultrasonic machine is compact, speedy, easy to operate and easily cleaned. Its high daily output of 500 to 750 litres of concentrated solution makes it adequate

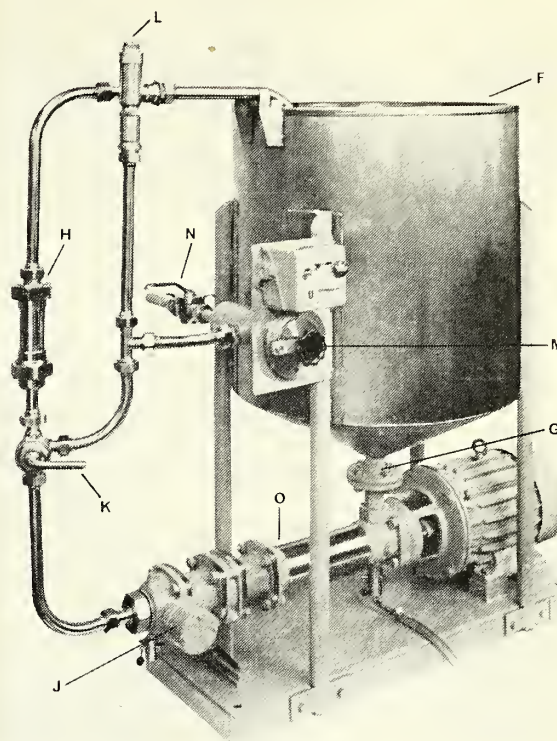


Fig. 4: Dispersionic machine. F=250-litre stainless steel tank; G=outlet to pump; H=ultrasonic whistle; J=automatic electric cut-out; K=three-way stop-cock; L=relief valve; M=filter cartridge; N=discharge valve; O=pump.

for the large haemodialysis units likely to be built within the next ten or twenty years. The prototype machine was tested out in preparing a "30x concentrate" but the author understands that future concentrates will be "35x concentrate".

ACKNOWLEDGMENTS

The machine was designed by Ultrasonics, Ltd., Otley Road, Shipley, Yorks.

I wish to thank Mrs E. Watson (senior pharmacist, Edinburgh Royal Infirmary) who has operated the machine since it was first installed; Dr. J. S. Robson; and the Board of Governors of the Royal Infirmary, Edinburgh.

CORRECTIONS: The sodium and potassium content of formula 1 should read:— Potassium 3.5 M/Eq. per litre, sodium 139 M/Eq. per litre. The subtitle should read "Their production in large quantities."

Any Business Questions?

I run my pharmacy as a limited company. I am considering selling some shares in my pharmacy to my wife. The shares are a lot more valuable than when I first acquired them. Shall I be liable for capital gains tax?

THERE is no liability for capital gains tax on a disposal of shares from husband to wife or vice versa.

I am proposing to have some rebuilding done to my premises. Am I liable to betterment levy?

IF your plans involve material development you will be liable to betterment levy in general terms on the differences between the base value of the land plus the cost of development, and the market value after the development has taken place.

I have received an offer for my shop premises from a developer who is prepared to grant me a long lease of a shop in the new building to be erected. If I sell, will I be liable to capital gains tax or betterment levy?

You may be liable to both. Capital gains tax could arise on the difference between market value at April 6, 1965, and today's current use value, and betterment levy could be payable on the difference between current use value and the selling price.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Share Frustrations

SIR,—Among my small circle of friends I am amazed to find at least five people who have experienced or are experiencing difficulty and frustration in settling what I consider are just claims. Briefly I mean the position of minority shareholders in private limited companies who desire to sell their shares at market or even par value when leaving the company in question. I argue that there must be several hundred cases such as these up and down the country (not only in the pharmaceutical sphere) but I would be grateful for any comments and advice from interested and sympathetic readers.

KREE DE KUR

Better Pay is the Answer

SIR,—The acute shortage of hospital pharmacists persists, to the detriment of the in- and out-patients, and will not be resolved so long as the professional grades of academic standing are not accorded at least the same status as administrative officers and the bureaucracy. Advertisements appearing many times without success try now and then to point out amongst other attractions a "higher qualification allowance" of £25 per annum, which seems to me an insult to every graduate so long as technicians are paid a greater amount for holding their certificates. To stem the trend towards industry and retail pharmacy some dubious suggestions are advanced, such as to increase the number of technicians and saddle "fewer and better paid pharmacists" with their supervision. Any one who has ever worked in the hospital service knows how difficult it is to exercise more than formal supervision over a large unqualified staff and to prevent mishaps by misunderstanding, valuable as the support of our auxiliaries certainly is in coping with routine work. Nor can the creation of a pharmaceutical hierarchy between Group and Regional level contribute to the solution of the problem. Let the professional academic grades have their due position within the hospitals and regions, and salaries commensurate with their knowledge, work and responsibility, and the flow from the hospital service will be stopped with greater probability than by any dubious experiments recommended up to now.

C. J. RAWSKI-CONROY,
St. Albans, Herts

"Of Vital Interest"

SIR,—E. C. Tenner raises a point of vital interest to all of us under the heading of "Health Centre Problem Acute for Some" (*C. & D.*, July 29, p. 101). Here, it seems, is a group of pharmacists enjoying good relationships with their local doctors and with sufficient flexibility of outlook to adapt quickly to changing circumstances. This group should be given every encouragement to proceed with its plans for the

very classes so clearly expressed by "E. C. Tenner." Having no access to the relevant legal information while on holiday, I can only rely on memory, but I believe the minimum hours of service under the existing N.H.S. contract are 9 a.m. to 6 p.m. though subject to variation with the consent of interested parties. Surely in this case the first concern is for the patients themselves. The secondary interest is equally shared by the doctors and pharmacists concerned to achieve greater productivity in their respective practices. Under these conditions it is difficult to see how the local Executive Council could fail to support a modification of existing regulations by presenting these facts to the Minister of Health. When the existing regulations were formed in 1948 there was, on national average, an ample number of doctors and pharmacists to operate the N.H.S. Now, nearly twenty years later, there is an acute shortage of medical practitioners and an impending scarcity of pharmacies (75 per cent. of self-employed pharmacists are over 45 years of age). At this time also we have very strong representation of chemist contractors on the Society's Council. It is the writer's impression that a direct approach to Council for greater flexibility of contractual hours of service would be given sympathetic consideration. If "E. C. Tenner's" group of pharmacists acts now they might well establish a valuable precedent for other pharmacists in the future.

KEITH JENKINS,
Nice, France

Energy Wrongly Directed

SIR,—I am disturbed by the outcry, the reviling, the demands for resignation, the calls for action and action committees, and the accusation of lack of interest against members of the Central N.H.S. (Chemist Contractors) Committee on the problem of the cuts in our remuneration. It must have been obvious to any intelligent thought that this was bound to happen after the rapid increase in the number of prescriptions dispensed, an increase that, in the majority of cases, was absorbed without any rise in labour costs. The question that troubled me was the size of the decrease, not the possibility. This was inevitable. I emphasise that I like it as little as anyone. That I too suffer an income drop and so do all the members of the committee so reviled, men who give up so much of their time and expense on our behalf. I voiced my disagreement of this decrease in income because of increased productivity at the proper place. But the fault lies not with our present negotiators, but with the acceptance of the derisory payment for our services in 1948. Obviously we are all agreed that the notional salary which forms the basis of our calculations is ridiculously small, but do any of the letter writers realise the difficulties and hours of negotiation that have resulted

in its rise to its present level? Do any of these same people who demand action appreciate that the Committee anticipated their views on its size long ago, and are working to have it raised? Bitterness and emotional outbursts don't impress the Ministry and Treasury. Only figures do this, and figures are unfortunately the reason for the present state of affairs. What annoys me about all these letters is the inference that those who remain silent are apparently satisfied — a ridiculous assumption. We are far from satisfied with our payment today, but we are satisfied with the reason for it. The meeting of representatives of Pharmaceutical Committees, prior to the general announcement, did not accept the chairman's statement in silence. Detailed and searching questions were asked by many, and complaints made by many, before recognising the difficulties and accepting the necessity for this imposition. I was present on that date. I and others emphasised our problem — "the rate at which we sold our services" — but not only must I agree the position today because I abide by a contract, but I remain confident in the integrity and ability of those who negotiate for us. I must, however, decry this criticism without knowledge, this expenditure of energy wrongly directed. There must be solidarity to achieve our ends, not splinter groups to dispute our strength.

MAXWELL GORDON,
Leeds, 17

Evidence Invited

SIR,—The Chemists' Action Group has received a number of letters from pharmacists who have recently acquired businesses and who are, thanks to the Central N.H.S. (Chemist Contractors) Committee, to be subjected to a three-year term of repayments to the Ministry of Health for moneys which they have not received. The Group would like to hear from other such pharmacists.

S. BLUM,
16 Swanscombe Road,
London W.11

BRANCH EVENTS

PLYMOUTH

For Service and Distinction

Two members who have recently received national distinction were honoured by Plymouth Branch of the Pharmaceutical Society at a dinner on June 29. Mr. C. C. U'Ren, who has at various times held every Branch office, was among pharmacists recently designated fellows of the Society. Mr. A. G. M. Madge (Branch secretary) was elected to the Society's Council in May — realising, in the words of Mr. L. W. J. SIMPSON (chairman), "a long-cherished ambition" and the first Plymothian to be elected to Council for fifty years. Replying, MR. MADGE said that Plymouth Branch had played a great part in the history of pharmacy. Principal guests at the dinner were the deputy lord mayor and deputy lady mayoress of Plymouth (Alderman and Mrs. R. A. Heare) and Mr. D. N. Sharpe.



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Grocery May be Too "General"

"DEFINE . . ." Such questions in examination papers in one's youth were dealt with efficiently or otherwise according to whether a set reply had been successfully committed to memory or the answer could be "worked out" from first principles.

Neither memory nor simple principles, we feel, are likely to give immediate help to those who must give judgment in the *Telken Investments, Ltd. v. David Harris & Son, Ltd.*, case (p. 132) in which a definition of a "general grocer" has to be found. The investment company bringing the action is seeking to restrain the defendant, one of the shopkeepers leasing its premises, from selling toothbrushes, toothpastes, medical plasters, hair cream, bath salts, health salts, aspirin, "and other chemist goods." The investment company owns a number of shops on a parade, and each lease contains a restrictive covenant designed both to prevent immediate competition between the lessees and to enable the investment company to obtain higher rents for its premises. One of the lessees is a chemist, who complained to the investment company that the defendants had broken the terms of their lease. The investment company therefore sought to obtain the opinion of the court and, pending a hearing of the action, applied for an immediate injunction.

The requirement in the lease is that the company shall not use the premises "except for the business of a general grocer." The case therefore turns on the definition of a general grocer, and the courts will presumably indicate where the boundary between grocer and pharmacist lies, so far as the goods they sell is concerned.

With the continued "development" of shopping centres, especially in urban areas, the decisions are likely to be of importance to an increasing number of retailers, and no doubt the decision will be applied in other areas and perhaps in other connotations. If the action is successful, the chemist on whose behalf it is brought will still have competition to meet but at least his premises will be allowed to be seen as the distinctively pharmaceutical business in the parade.

Lessons for Industry from Aberfan

LIKE the thalidomide tragedies, the Aberfan disaster has brought in its train scars and recriminations and has sharpened scientific investigations. Though the technical aspects of the coal-tip disaster are in a field foreign to pharmacy, it does appear to us that there is one impor-

tant facet that the pharmaceutical industry, and indeed the whole of British industry, should seriously examine. It is the evidence the report has provided of insensitivity in the senior management of a large organisation to criticism and complaints both from the public and even from within the organisation itself. The attitude derives internally from poor personnel relationships and externally from a too-easy tendency to lose interest in a customer once a sale has been completed. The trend has especially to be resisted in an era in which larger units are more and more being formed by take-over and merger, resulting too often in increasing remoteness between senior management and those who purchase the goods or use the services. Good and active personnel relationships do not automatically arise from the setting-up of a personnel unit or office. They need to be consciously fostered. It is common or frequent experience that the better the relationship among the staff the superior is the final product or service obtained by the customer.

Mercifully tragedies on the scale of Aberfan are rare, but the lessons are there to be learned and generally applied, especially in a year that has been designated Quality and Reliability Year. Symptomatic of the increasing gaps between supplier and purchaser has been the proliferation of consumer associations. Somehow senior managements in all types of organisation must ensure that the gaps are bridged.

ON THE SIDELINES

★ AN AMBITIOUS LECTURE SERIES ★

AN unusually ambitious series of lectures (see p. 145) is being arranged for the coming winter by Hounslow Branch of the Pharmaceutical Society. At the suggestion of the chairman (Mr. V. M. Bond), the Branch decided to cater for the technical leanings of its younger members, and enlisted the aid of the British Heart Foundation and of Mr. L. Priest (of the Society's headquarters staff). As a result, three eminent speakers are each to address a meeting of the Branch on aspects of drugs and the heart. A number of pharmaceutical companies are lending supporting films, and a display of cardiac equipment is being arranged at the first and third meetings by Allen & Hanburys (Surgical Engineering), Ltd., while the first meeting will be attended by the mayor and mayoress of Hounslow. Invitations to attend are being sent to pharmacists in neighbouring branches and to hospitals and medical practitioners in the area. The initiative should commend itself elsewhere.

NEW BOOKS

General Chemistry

W. H. SLABAUGH AND J. D. PARSONS. *John Wiley & Sons, Ltd.*, Glen House, Stag Place, London, S.W.1. 9 x 7½ in. Pp. xiii + 478. 64s.

INTENDED for American students taking a first-year college course in chemistry, the work emphasises the application of physical and chemical principles to the properties of substances. It opens with a revision chapter and goes on to discuss atomic structure, periodic properties, bonding, ions and molecules, formulas and equations. Three chapters on physical states are followed by chapters on solutions, kinetics, the nature of chemical compounds, ionic equilibria and electrochemistry. A chapter on "The Driving Force in Chemical Reactions", is followed by a review of the various types of ions and molecules, and information on metals and non-metals and co-ordination complexes. Other chapter subjects are nuclear chemistry, geochemistry and metallurgy, organic chemistry (two chapters), biochemistry, and colloids and surface chemistry. Appendices include tables of physical data. A feature of the book is that the text occupies only about half the page area, the remaining half being occupied by diagrams.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN PHARMACY IN HEALTH CENTRES

Council formulates five principles

THE Pharmaceutical Society's dealings with the British Medical Association concerning a circular on rural dispensing were discussed at the meeting of the Council on August 1. MR. J. P. BANNERMAN, who raised the matter, received an assurance from the president that, at the meeting between the Society, the Contractors Committee and the British Medical Association to discuss the subject, there had been no undermining of the efforts of the Central N.H.S. (Chemist Contractors) Committee, MR. J. C. BLOOMFIELD said he had been in the chair at the joint meeting, at which the contractors' representatives had accepted B.M.A. criticism of the terms of the letter. That was how the matter had been left.

Council Business

MR. J. E. BALMFORD suggested that insufficient use was being made by the Council of the time available on the Tuesday evening of Council week. When he had first joined the Council, he said, business had been begun on the Tuesday evening, thus saving time on Wednesday morning. The whole of Council business had now been brought forward to the Wednesday morning but, true to "Parkinson's law," work had been found to occupy the Tuesday evening. With one exception, the Tuesday evening discussions had had little or no result in policy, and he suggested that Tuesday evenings should be used to get through more business. Some subcommittees could meet bimonthly instead of monthly. Council agreed that the Organisation Committee should consider the matter.

The minutes of the meeting of the Practice Committee, presented by its chairman (MR. J. P. KERR) contained the recommendation that the Committee for Planned Distribution should consider in detail the problems of rural dispensing and dispensing doctors, collection points, health centres, etc. The Committee noted that a pharmaceutical manufacturer had issued rubber stamps to doctors who wished to prescribe one of its products. The Committee deprecated the practice and recommended that the manufacturer concerned, and the Association of the British Pharmaceutical Industry, should be informed of the Society's views and the A.B.P.I. asked to publicise them to its members.

A report was received on the closure of a pharmacy following the death of the proprietor. The widow had been unable to secure the services of a locum pharmacist and had been obliged to sell the pharmacy, which had been purchased by a local firm of doctors, who used the dispensary of the pharmacy to dispense for their patients, the shop part of the premises having been sold by the doctors to a local shopkeeper. It was agreed that a procedure was needed whereby such matters could be brought to the attention of the Society at an early stage so that action could be taken to ensure the continuance of a pharmaceutical service in the area. It was recommended that the office should prepare a document setting out the machinery by which such situations could be met. A document concerning policy on health centres had been agreed by the Council and sent to the Central N.H.S. (Chemist Contractors) Committee for comment. The Committee had agreed, and the document was now being issued as a joint letter from the Society and the Committee to all Local Pharmaceutical Committees and copies for information to Society and N.P.U. branch secretaries. The letter sets out five main principles:—

(1) No pharmacy department should be established in a health centre if existing pharmaceutical facilities are adequate.

(2) When it is desirable, for the benefit of the public, to establish a pharmacy close to a new health centre or group practice,

such a pharmacy should be owned and established jointly by existing pharmacists in the district, and should be strictly professional in character.

(3) When premises are resited, the displaced pharmacist(s) should be given priority to occupy new premises in the same district.

(4) The action of established pharmacists in "leap-frogging" towards a health centre or group practice is to be deprecated, and the establishment of new pharmacies in the vicinity of group practice premises by pharmacists or firms from outside the area is equally undesirable.

(5) In new towns, or development areas of existing towns, and in the redevelopment of existing towns or districts, the number and position of pharmacy premises should be decided at the earliest stage of planning and built to a specific design, the planning authority being advised to discourage any private developer from advertising shop premises as "suitable for a pharmacy."

The letter says that the prime responsibility for foreseeing and dealing with such problems lies with the Local Pharmaceutical Committee. Contact should be established with local planning and health committees and with other professional organisations with common interests. The Society should be informed as early as possible about impending developments. On the question of redevelopment of town centres, etc., the letter explains, by way of example, what happened in Leeds. A questionnaire was sent to all pharmacists in the Executive Council area asking the intentions of those who might be affected: (1) if new premises were required in the same area or any of the new areas; (2) if they were interested in any city council development; (3) if they intended making their own arrangements under private development; and (4) if it was their intention to retire. It was pointed out that, in any new development, preference would be given to those displaced. Agreement was reached with the clerk to the Executive Council, and apparently with the Executive Council, that a population of 5–6,000 was necessary to make a pharmacy economically viable and that, in any new shopping parade, room should be allowed for a pharmacy under such conditions.

Group Practices Contrasted with Health Centres

The letter says that group medical practices are often confused with health centres. The first is a private arrangement by the doctors involved, though they may receive an interest-free loan for the premises from public funds through the Executive Council. The health centre is an official establishment, built and managed by the local health authority, in which accommodation may be provided for any or all of the N.H.S. Part IV services (medical, dental, pharmaceutical and optical) together with maternity, child-welfare, school medical and other clinic services, diagnostic and consultative facilities and even beds. The effect of a group practice, by bringing together in one place a number of doctors who have previously practised from surgeries distributed over an area, may be to disrupt the dispensing pattern of the area, resulting in some pharmacies losing a substantial amount of dispensing and others increasing their share accordingly. That may not be entirely avoidable, but the situation may be considerably worsened by the opening of one or more new pharmacies "on the door-step" of the group-practice premises. The same situation may arise, the letter continues, when a health centre is established in an already developed area, with the possible complication of a proposal to provide dispensing services within the health centre itself. The Society's policy is that, wherever adequate pharmaceutical facilities are already available or can be made so through pharmacies, the needs of the public are best met in that way. The external services should, however, be regarded as part of the com-

plex of services provided by the centre, and appropriate co-operation with the centre should be provided by the pharmacists concerned. The letter ends with a reminder that there is machinery for appeal to the Ministry of Health by any aggrieved interest.

Approval was given to comments to be submitted by the Pharmaceutical Society to the Ministry of Agriculture, Fisheries and Food, concerning the review of present safety arrangements for the use of toxic chemicals in agriculture and food storage.

The Society welcomed the proposals for tightening the regulations relating to such toxic chemicals in agriculture and food storage, but pointed out that it would be more logical and probably more satisfactory from a legislation point of view to include all veterinary preparations in the new medicines legislation. Pesticides must be treated differently from veterinary medicines. The Society also questioned the recommendation of the local authority as the most appropriate agency for enforcing the provisions relating to the proposed control. It should be exercised from a central authority under the appropriate Ministry.

CONSUMER COUNCIL

Annual report for 1966-67

"HIGHER priority should be given by the Government to the Consumer Council's work of informing and educating consumers" writes Lady Elliot of Harwood (chairman of the Council), in her foreword to the Council's report for 1966-67 (H.M. Stationery Office, price 3s.); she says that the Council's efforts, particularly in carrying out adequate publicity, are hampered, both because its Government grant is not larger and because it is not allowed to set up regional offices.

The Council has been much encouraged by the support given to the Teltag labelling scheme (see *C. & D.*, August 14, 1965, p. 148) by industry and commerce as well as by the public. "It will, however, have to compete with many other claims on the attention of the public, in particular heavily promoted labels by manufacturers."

The Council has been much engaged in the campaign for the 10s. unit of decimal currency. Although the campaign failed to budge the Government from its choice of the £-cent- $\frac{1}{2}$ system, it succeeded in stirring interest in the issue. The Council has decided to keep up pressure for the 10s. system during the passage of the Decimal Currency Bill through Parliament.

"Last year the Council received 1,302 letters and "innumerable" telephone calls. All letters have been recorded on cards facilitating a quick analysis of their contents. Discontentment Analysis and Indexing System (DAISy) helps to assess the problems that should be given priority and to spot new causes of complaints as they arise."

It was agreed between interested organisations in Sweden, the Netherlands, Britain and the Republic of Ireland to establish an international labelling centre with a secretariat provided by an existing research organisation in the Hague. Main purpose is to exchange technical information about labelling in order to reduce duplication of research into standard methods of measuring performance.

The Council continued to press for greater flexibility in shop opening hours. "Although comments on the pamphlet 'Retail Trading Hours' were sent to the Home Office in November 1965, 1966-67 has been marked by official silence on the whole question. We hope that reform of the outdated Shops Act has not been shelved because of the difficulties of squaring the changing needs of the public with the interests of the sections of the community who want to maintain the *status quo*."

Containers for Tablets

A letter from the British Medical Association conveyed a suggestion from Worcestershire Local Medical Committee that rigid containers should be used for dispensing all tablets and capsules and that cardboard boxes were unsuitable for such use (see also p. 131). It was recommended that the British Medical Association should be informed of the Society's previously published agreement with the views contained in the suggestion. It was also recommended that a letter should be sent to the Ministry of Health restating the case for the use of glass or plastic containers for tablets and capsules in all cases.

It was recommended that voting papers for the Agriculture and Veterinary Pharmacy Group Committee election should be accompanied by biographical details and a statement of policy for each candidate, should the candidates so desire. The Committee recommended that no candidate should canvass the membership of the Group in any way. It was also decided to hold the annual meeting of the Group on March 3, 1968.

(To be concluded)

A memorandum has been submitted to a joint working party of the Law Commissions on the many examples of exclusion clauses in contracts for goods and services and the Council have continued to press for revisions to the Weights and Measures Act, 1963, to make it compulsory for common household goods to be marked with the price per standard unit weight and for detergents to be sold in specified quantities.

Projects on which the Council hopes to embark during the coming months include a study of the implications for consumers if Britain joins the Common Market, including such aspects as transport, labelling of goods in shops and safety regulations.

TRADE IN NARCOTICS

Statistics for 1965

THE addendum to the report of the United Nations Economic and Social Council on the work of the Permanent Central Narcotics Board in 1966 (H.M. Stationery Office) provides information concerning the international commercial activity in narcotic drugs during 1965. Details are given of the manufacture and exporting of narcotic drugs in a number of territories throughout the world. The details in respect of the United Kingdom and the Republic of Ireland have been abstracted and are given in the table set out below:

	UNITED KINGDOM			IRISH REPUBLIC	
	MANUFACTURED	IMPORTED	EXPORTED	IMPORTED	EXPORTED
	kilos	kilos	kilos	kilos	kilos
Anileridine	12	2	—	—	—
Cannabis	—	—	17	1	—
Cocaine	350	—	176	1	—
Cocaine, crude—brute	—	413	—	—	—
Codeine	19,771	—	6,472	207	—
Dextromoramide	—	23	—	1	—
Diethylthiambutene	17	—	3	—	—
Dihydrocodeine	1,166	—	109	—	—
Diphenoxylate	—	64	—	—	—
Dipipanone	87	—	12	—	—
Ethylmorphine	201	—	72	—	—
Heroin	77	—	—	—	—
Hydrocodone	28	—	21	—	—
Hydromorphanol	—	—	—	—	—
Levorphanol	—	1	—	—	—
Methadone	80	—	36	1	—
Methadone intermediate	138	—	—	—	—

	UNITED KINGDOM			IRISH REPUBLIC	
	MANUFACTURED	IMPORTED	EXPORTED	IMPORTED	EXPORTED
	kilos	kilos	kilos	kilos	kilos
Morphine	18,121	151	2,321	5	—
Opium	—	276,291	2,827	32	—
Oxycodone	30	—	25	—	—
Oxymorphone	—	—	—	—	—
Pethidine	3,450	23	2,109	31	32
Pethidine, intermediate A	4,544	—	630	—	—
Pethidine, intermediate B	15	—	—	—	—
Pethidine, intermediate C	94	—	—	—	—
Phenadoxone	—	—	—	—	—
Phenazocine	—	—	—	—	—
Pholcodine	749	—	246	9	—
Thebacon	4	—	5	—	—
Thebaine	469	—	108	—	—

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are augmented before wholesale dealers receive the goods into stock.

LONDON, AUGUST 9: There was no change in the volume of trading transacted during the week and price movements among CRUDE DRUGS were mainly in a downward direction. Most BALSAMS were easier particularly CANADA which was down one shilling per lb. while COPAIBA was lower by sixpence and PERU by threepence. PEPPERS were all quoted lower and TURMERIC for shipment was down 2s. 6d. per cwt. Spot holders of Costa Rican and Colombian IPECACUANHAS shaded their offers by sixpence per lb. On the other hand the small quantity of BUCHU that may be available on the spot was marked up sixpence per lb. upon more inquiry. Among AROMATIC SEEDS Moroccan FENUGREEK appeared to be at short supply at 83s. 6d. per cwt. (up one shilling). MENTHOL was fairly steady at previous rates although Chinese for shipment was threepence per lb. down. CAMPHOR POWDER was cheaper forward. The Board of Trade have given notice that they are considering an application for the removal of import duty from a number of botanical drugs including BELLADONNA and SENEGA (see p. 131). Only state-owned enterprises in Tanzania can now export CLOVES and CLOVE OIL, on contract. Previously, the trade was also carried by private merchants on a commission basis.

Among ESSENTIAL OILS, prices of PATCHOULI continued to slide. Forward rates of BOIS DE ROSE and LEMONGRASS were easier while Chinese PEPPERMINT fell three-halfpence per lb. in both positions.

The lower rates for CITRATES announced last week by one maker have been implemented by other makers; the new schedules are given below. ISOPROPYL ALCOHOL has advanced fourpence per gall. making the technical grade in tank-car lots from 4s. 10d. to 5s. per gall. and the grade for essences, 17s. 10d. per gall. for 45-gall. drum lots.

Pharmaceutical Chemicals

ADRENALINE.—(Per gm.). Synthetic B.P., 1-kilo lots, 1s.; 500 gm. is 1s. 2d. Acid TARTRATE, B.P., 1 kilo, 8½d.; 500 gm., 10d.

ATROPINE.—Per oz. for 16-oz. lots; ALKALOID and METHONITRATE, 39s.; METHYLBROMIDE, 38s. 6d.; SULPHATE, 34s. Equivalent rates per kilo are: 1,375s., 1,375s. and 1,198s. 6d. respectively.

CITRATES.—(Per kilo):—

	50 kilos	250 kilos	1,000 kilos
	s. d.	s. d.	s. d.
SODIUM ...	5 0½	4 11½	4 9½
POTASSIUM ...	5 3½	5 2½	5 0½
IRON AND AMMONIUM GRAN. SCALES ...	9 11	9 7	9 4
	12 11	12 7	12 4

HOMATROPINE.—16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d.

IODIDES.—(Per kilo). POTASSIUM, 21s. 6d. (for 50-kilo lots). SODIUM, 28s. 6d. (for 25-kilo lots). AMMONIUM, 46s. 6d.

IODINE.—RESUBLIMED in less than 50-kilo lots, 30s. 6d. per kilo; 50 kilos and over, 29s. 9d. Minimum delivered rates for CRUDE is 13s. 7d. per kilo.

IODOFORM.—Powder (per kilo), 55s. 3d., in 50-kilo lots; less than 50 kilos, 56s. 9d. Crystals are 6s. 6d. per kilo more.

MAGNESIUM CARBONATE.—1-ton lots: LIGHT, 129s.; HEAVY, 148s. per cwt.

MAGNESIUM HYDROXIDE.—B.P.C., 1-cwt. lots, 4s. 1d. per lb.; 1-ton, 3s. 8d. per lb.

MAGNESIUM OXIDE, B.P.—LIGHT, 1-cwt. lots, 4s. per lb.; 1-ton, 3s. 9d.; HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—B.P.C. (15 per cent.), 3s. 11d. per lb. for 1-cwt. lots.

MAGNESIUM PHOSPHATE.—TRIBASIC, B.P.C., 1949, 10s. 1d. per kilo, in sacks; DIHYDROGEN, 9s. kilo for 50-kilo lots.

MAGNESIUM SULPHATE.—B.P. in minimum 1-ton lots from £21 to £25 per ton. EXSICCATED, £61 per ton, ex works.

MAGNESIUM TRISILICATE.—(Per lb.), Under 5-cwt. lots, 4s. 3d.; 1-ton, 3s. 6d.

PILOCARPINE.—1-kilo lots, NITRATE, 1,357s. per kilo; HYDROCHLORIDE, 1,516s.

PIPERAZINE.—Less than 50 kilos are: ADIPATE, 19s. 3d. per kilo; CITRATE, 18s. 6d.; HEXAHYDRATE, 13s. 3d.; PHOSPHATE, 20s. 6d.; TARTRATE, 19s. 6d.

TALC.—B.P.C. in 1-ton lots is quoted at 1s. 2d. per lb.

Crude Drugs

BALSAMS.—(per lb.): CANADA: 35s. 6d., spot, 33s., c.i.f. COPAIBA: B.P.C. spot, 11s.; shipment, 6s. 6d., c.i.f.; PERU: spot, 12s. 3d.; shipment, 11s. 3d., c.i.f.; TOLU: B.P., 12s. 6d.

BELLADONNA.—LEAVES, 4s. 3d. per lb., spot; shipment, 3s. 9d., c.i.f. HERB, 2s. 9d. spot; ROOT, 1s. 10d. per lb., spot; shipment, 1s. 8d., c.i.f. nominal.

BENZOIN.—Sumatra block B.P.C., spot £27 per cwt.

BUCHU.—LEAVES, 13s. 6d., per lb. nominal; supplies at origin cleared.

CALUMBA.—Mozambique root, 125s. per cwt. spot.

CAMPHOR.—B.P. powder for shipment, 5s. per lb., c.i.f.; spot, 5s. 4d.

CHILLIES.—Zanzibar for shipment, 285s., cwt., c.i.f.; Mombasa, 325s., spot.

CINCHONA BARK.—*Succirubra* from 2s. to 2s. 6d. per lb. according to test.

CINNAMON.—BARK, Seychelles, 157s. 6d. cwt. spot; shipment, 125s., c.i.f.; Ceylon QUILLS for shipment, five 0's, 11s. lb.; three 0's, 10s. 6d.; seconds, 8s. 3d.; quillings, 5s. 2d., all c.i.f.

DRAGONS BLOOD.—spot, £25 cwt.

ERGOT.—Portuguese—Spanish, spot, 10s. 6d. per lb.; shipment, 10s. c.i.f., nominal, Continental, 9s., spot. North American, 8s. 9d. and 8s. 3d., c.i.f.

GENTIAN.—Spot, 215s. per cwt.; 210s., c.i.f.

GINGER.—(per cwt.). Nigerian split, 100s.; peeled 160s. spot; African, 155s. Jamaican No. 3, 250s.; Cochin, 200s.

IPECACUANHA.—Matto Grosso for shipment, 39-40s. per lb., c.i.f., spot, 48s. 6d. Costa Rican, 57s., spot; forward, 54s. 6d., c.i.f., Colombian, spot, 46s. 6d.; shipment, 43s. 6d., c.i.f.

JALAP.—Mexican whole bulbs, 4s. per lb. on spot; shipment, 3s. 9d., c.i.f. Brazilian, 1s. 9d., c.i.f.; spot, 1s. 11d.

MENTHOL.—(Per lb.). Chinese, September-October shipment, 30s. 3s., c.i.f.; spot, 32s. 6d. in bond. Brazilian for shipment, 27s. 9d., c.i.f.; spot, 28s. 6d. in bond.

MERCURY.—Spot, £171 per flask of 76 lb., ex warehouse.

MYRRH.—Spot, 430s. cwt.

NUTMEGS.—(Per lb.). West Indian, spot, sound unsorted, 5s. 9d.; shipment: 110's, 6s. 6d., 80's, 7s. 6d.; defectives, 3s. 6d., all c.i.f.

ORANGE PEEL.—Spot: Sweet ribbon,

1s. 8d. per lb., bitter quarters; West Indian, 10½d.; Spanish, 1s. 9d.

PEPPER.—White Sarawak, spot, 2s. 10d. (2s. 8½d., c.i.f.); Black Sarawak, 2s. 10d., c.i.f. Black Malabar, 29s. 6d. per cwt., c.i.f., Brazilian black No. 1, 2s. 8½d. lb. duty paid.

SEEDS.—(Per cwt.)—ANISE.—Cyprian, 235s., c.i.f. CARAWAY.—Dutch, 147s. 6d., spot. CELERY.—Indian, 165s. spot; new crop, August shipment, 152s. 6d., c.i.f. CORIANDER.—Spot, Moroccan, 105s., Rumanian split, 110s., both duty paid; shipment Moroccan, 83s., c.i.f. Rumanian whole, 80s., c.i.f. CUMIN.—Spot, Cyprian, 250s., Iranian, 240s., duty paid; shipment Iranian, 150s., c.i.f. DILL.—Indian, 120s., spot; shipment, 100s., c.i.f. FENNEL.—Chinese, 127s. 6d., duty paid; Indian, 145s. FENUGREEK.—Moroccan, 83s. 6d., duty paid; shipment, 65s., c.i.f. MUSTARD.—English, 67s. 6d. to 105s. according to quality.

TONQUIN BEANS.—Para, spot, cleared; shipment, 11s. lb., c.i.f. Trinidad, 9s. spot.

TURMERIC.—Madras finger spot 155s. per cwt.; shipment, 125s., c.i.f.

Essential and Expressed Oils

AMBER.—Rectified spot, 1s. 6d. per lb.

ANISE.—Chinese, spot, 11s. 6d. lb.; shipment, 10s. 9d., c.i.f.

BAY.—Spot, 43s. to 44s. per lb.

BIRCH TAR.—Rectified 15s. lb. on the spot.

BOIS DE ROSE.—Brazilian, spot, 22s. per lb.; shipment, 20s. 6d., c.i.f.

BUCHU.—Spot, from 650s. per lb. for English distilled.

LEMON.—Sicilian, winter crop, 45s. to 47s.; spring, 40s. to 42s.

LEMONGRASS.—Spot, 25s. 6d. per kilo shipment, 23s. 7½d., c.i.f.

LIME.—West Indian distilled, 73-74s. per lb. on the spot.

NUTMEG.—East Indian B.P. oil is about 73s. per lb. English distilled, 110s.

OLIVE.—Spot is from 26s. 6d. to 27s. per gall., in drums, ex wharf.

ORANGE.—Florida sweet, 3s. 6d. per lb.; Spanish from 19s. 6d.

PALMAROSA.—Shipment, 165s. per kilo, c.i.f.; spot, 170s. per kilo.

PATCHOULI.—Spot, 25s. to 27s. 6d. per lb., duty paid; shipment, 22s. to 23s., c.i.f.

PENNYROYAL.—Forward shipment offers at 17s. lb. duty paid.

PEPPERMINT.—(Per lb.). *Arvensis*; Chinese for shipment, 9s., c.i.f.; spot, 10s. 4½d. Brazilian for shipment, 8s. 1½d., c.i.f.; spot, 8s. 4½d. *Piperita*; Italian spot, 95s.

SANDALWOOD.—Mysore, spot, 118s. 6d. lb., East Indian for shipment, 275s. per kilo, c.i.f.

SAGE.—Spanish, 21s. per lb.; Dalmatian, 26s.

SPEARMINT.—American oil on the spot, 74s. to 80s. per lb. Chinese, spot, 62s. 6d. per kilo; shipment, 52s. 6d., c.i.f.

TANGERINE.—Sicilian new crop offers at from 29s. to 33s. per lb.

THYME.—Red, 27s. 6d. per lb., for 45-50 per cent., duty paid.

VETIVER.—Bourbon, spot, 85s. per lb.

YLANG YLANG.—Best oil quoted about 135s.

UNITED STATES REPORT

NEW YORK, AUGUST 8: During the week AMMONIA ANHYDROUS fell \$8 to \$84.00 a ton. One pharmaceutical company announced price reductions ranging to 20 per cent. in some forms of PHENOXYMETHYL PENICILLIN.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

"Trade Marks Journal," July 26, No. 4638

For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles, shampoos, soaps and essential oils and for hair creams, brilliantines, toilet soaps, shampoos, toilet water, perfumes, hair lacquers and non-medicated hand creams (3)

Device with numerals 007, 873,374-75, by Sidney Margolis, Ltd., London, S.E.17.

For perfumes, cosmetics, dentifrices and wax polishes (3)

Device with word ARROW, 881,291, by Granada Group, Ltd., London, W.1.

For preparations for the hair; and cosmetic preparations (3)

PRINSOL, B889,989, by Organon Laboratories, Ltd., Morden, Surrey.

For dentifrices (3)

Device with words RING OF CONFIDENCE, B895,985, by Colgate-Palmolive Co., New York, U.S.A. RUSAN, 904,916, by Strawson Chemical Co., Ltd., London, S.W.1.

For cosmetic preparations; bath preparations (not medicated) for toilet use; and toilet soap; and for babies (3)

BABYDAS, 895,358, by Uhu-Werk H.U.M. Fischer, Buhl (Baden), Germany.

For cosmetics and non-medicated toilet preparations, all in liquid form; perfumed soap, perfumes, essential oils and dentifrices (3)

CERES, 897,573, by Beauty Without Cruelty Boutique, London, W.1.

For preparations in spray form, for the hair (3)

Device with words RICHARD CONWAY'S GINGER GROUP BRAND HAIR SPRAY, B899,324, by Richard Conway, London, S.W.1.

For perfumes, perfumed soap, non-medicated toilet preparations, cosmetics and non-medicated preparations for the teeth and hair (3)

Device with word PRESTIGE, 901,582, by Karlsruher Parfümerie-und Toiletteseifen-Fabrik F. Wolff & Sohn, G.m.b.H., Karlsruhe, Germany.

For preparations for inhibiting the growth of hair, for removing, for preventing the loss of hair and for stimulating the growth of hair (3)

HAAREXSTOP, 900,347, by Siegfried Thoenig, Wuppertal-Vohwinkel, Germany.

For lipsticks (3)

SLIPSTICK, B902,020, by Chesebrough-Pond's Ltd., London, N.W.10.

For non-medicated toilet preparations, perfumes, soaps, essential oils, cosmetics, hair lotions and dentifrices (3)

MONIRI, 901,994, by Nivea, Saint Maur, Val de Marne, France.

For soaps, perfumes, non-medicated toilet preparations, essential oils, hair lotions and dentifrices (3)

KISSING POINT, 903,201, by Thomas Johnson Gurr, Sydney, New South Wales, Australia.

For medicinal and pharmaceutical preparations (5)

Device with letters AB, B867,505, by Alonzo O. Bliss Medical Co., Inc., Coral Gables, Florida, U.S.A.

For chemical substances for use in medicine and pharmacy; antiseptics, insecticides and herbicides; all for sale in the United Kingdom otherwise than for export (5)

ANTAGAL, 896,715, by Reckitt & Sons, Ltd., Hull, Yorks.

For pharmaceutical and medicinal preparations and substances; and deodorants (5)

ERCOROL, 901,711, by Ercopharm, A/S, Tiorod pr Vedbaek, Denmark.

For medicated confectionery (5)

Device, 901,972, by S. Parkinson & Son (Doncaster), Ltd., Doncaster, Yorks.

For pharmaceutical preparations and substances (5)

Device with letter L, 902,015, by Laboratoire Lachartre, Paris, 12, France.

For pharmaceutical preparations for human and veterinary use (5)

TRODAX, 902,053, by May & Baker, Ltd., Dagenham, Essex.

For pharmaceutical preparations for treating the skin (5)

SPOTOWAY, B902,591, by Kathleen Slater, Timperley, Ches.

For medicinal and pharmaceutical preparations and substances (5)

RED DEVIL, 903,829, by Britanol, Ltd., Horsforth, Leeds, Yorks.

For pharmaceutical preparations and substances for human and veterinary use (5)

SISTOTENSIN, 904,310, CEBACTANE, 905,019, by CIBA, Ltd., Basle, Switzerland.

For air freshening preparations (5)

STRAWFRESH, 904,918, by Strawson Chemical Co., Ltd., London, S.W.1.

For medicated beverages; and beverages for infants and invalids and for dietetic purposes; all containing grape juice (5)

GRAPELLA, 904,935, by Beecham Food & Drink Division, Brentford, Middlesex.

For pharmaceutical, veterinary and sanitary substances (5)

GERINOR, 904,963, by Roche Products, Ltd., Welwyn Garden City, Herts.

For razor blades (8)

Device, 894,652, by Eversharp of Canada, Ltd., Toronto, Ontario, Canada.

For electrically operated toothbrushes (21)

E.S.G.E., B895,288, by General Electric Esge, Ltd., Zurich, Switzerland.

For bathing caps, footwear being articles of clothing and soles and heels for footwear; all for babies (25)

Device with words SUBA SEAL BEST FOR BABY CARE, 903,922, by William Freeman & Co., Ltd., Stancross, Barnsley, Yorks.

For babies' napkins (textile) and disposable diapers for babies (25)

SOFTELLE, 897,236, by Lewis Woolf Grip-tight, Ltd., Selly Oak, Birmingham, 29.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"

August 2, 1967

Composition for the determination of gastric acidity. E. Merck, A. G. 1,082,750.

Herbicide compositions. Proclada, Produits Chimiques Industriels et Agricoles. 1,082,763.

Rodenticide preparations. Keystone Chemical Co., Ltd. 1,082,772.

Sterilisation of liquids. Alfa-Laval, A.B. 1,082,775.

Method of, and an apparatus for the objective testing of anapoules. Farbenfabriken Bayer, A.G. 1,082,928.

Derivatives of 7-aminoccephalosporanic acid. Glaxo Laboratories, Ltd. 1,082,943, 1,082,962.

Steroid derivatives. T. L. Vaglio. 1,082,953-54. Substituted imidazolines and their preparation and use. Wellcome Foundation, Ltd. 1,082,964.

Preparation and use of 2,6-dichloro-4-nitrobenzanide. Merck & Co., Inc. 1,083,001.

Medicated candy lozenges. Merck & Co., Inc. 1,083,050.

Process for resolving d, l-pentolactone. P. Hoffmann-La Roche & Co., A.G. 1,083,076.

Fungicidal composition. S.I.A.P. Soc. Italo Americana Prodotti Antiparassitari. 1,083,115.

Guanidine derivatives and process for their manufacture. CIBA, Ltd. 1,083,193.

Process for the production of 11-hydroxylated steroids. Syntex Corporation. 1,083,204.

Herbicide chlorophenoxy compounds. Kureha Chemical Industry Co., Ltd. 1,083,241.

Anti-diabetically active sulphonamides. C. H. Boehringer & Soehne, G.m.b.H. 1,083,250.

Process for the isolation of polysaccharides and lipopolysaccharides having antigenic activity. Shering, A.G. 1,083,277.

Chromomycin A₃ derivative and production thereof. Takeda Chemical Industries, Ltd. 1,083,509.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each)

from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from September 13, 1967.

NEW COMPANIES

P.C.=Private Company. R.O.=Registered Office.

CITY MEDICAL (BIRMINGHAM), LTD. (P.C.). Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. Directors: Kathleen M. Riman, Brian H. Williams, R.O.: 2 Hamilton Terrace, Leamington Spa, Warwick.

ETHICHEM, LTD. (P.C.). — Capital £1,000. To carry on the business of manufacturing chemists, etc. Alfred G. Lake is the first director. R.O.: 186 Hammersmith Road, London, W.6.

PEARLYDORE, LTD. (P.C.). — Capital £100. To carry on the business of a mail order house and as distributors and dealers in cosmetic products of all kinds, etc. The Subscribers: Harold L. Goodman, 121 Kingsway, London, W.C.2 and Tracey Boost.

STEPHEN LENNARD, LTD. (P.C.). — Capital £100. To carry on the business of importers, exporters, and dealers in toilet goods, chemists sundries, etc. Directors: Lennard S. Lazarus, Stephen J. Forman. R.O.: 25 Parkhurst Court, London, N.7.

TERENCE LABORATORIES, LTD. (P.C.). — Capital £100. To carry on the business of manufacturing and retail chemists, etc. Directors: Denis Selwood and Terence Hanna, R.O.: 23 Church Lane, Stevenage, Herts.

WHITELEY (GLOUCESTER), LTD. (P.C.). — Capital £100. To carry on the business of dealers in chemist's sundries, etc. Directors: Raymond H. Whiteley and Anette J. Whiteley. R.O.: Shop 2, Churchfield Road, Upton St. Leonards, Glos.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of week of insertion.

Wednesday, August 16

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Poole quay, at 7.15 p.m. Three-hour cruise (cost 12s. 6d. per person).

Advance Information

AGRICULTURAL AND VETERINARY PHARMACY GROUP, PHARMACEUTICAL SOCIETY. Visit to Royal Agricultural College, Cirencester. September 27.

LONDON NURSING EXHIBITION, Seymour Hall, Seymour Place, London, W.1, October 16-20.

GLASGOW PHARMACY CLUB. Whist drives have been arranged for the following dates. 1967: November 7; December 5. 1968: January 9; February 6; March 5. The annual dinner and dance takes place at Cameron House, Hardgate, Duntocher, Clydebank, on October 31.

Courses and Conferences

BIOLOGICAL METHODS GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, Royal College of Physicians, St. Andrew's Place, Regent's Park, London, N.W.1, at 10.15 a.m. on October 19. Meeting on "Aspects of Toxicity Testing." Speakers: Dr. V. Udall (Wellcome Research Laboratories); Dr. J. M. Barnes (Medical Research Council); Drs. K. M. Harper and L. E. Mawdsley-Thomas (Huntingdon Research Centre) and Drs. W. A. M. Duncan and G. E. Paget (Smith, Kline & French Laboratories, Ltd.).

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY. Parke, Davis & Co., Staines Road, Hounslow, Middlesex, on November 7, December 14 and January 11. Course of three meetings on drugs and the heart, Dr. K. P. Ball (Central Middlesex Hospital) on "Coronary Conditions"; Professor W. S. Peart (St. Mary's Hospital) on "Hypertension" and Dr. M. Thomas (Post-graduate Medical School of London) on "Heart Failure and Cardiac Arrhythmias." Intending visitors should contact the Branch Secretary, Mr. R. M. Howitt, 235 Ellerdine Road, Hounslow, Middlesex, between September 15 and November 3. (See also p. 141).

Prescribers Press

What doctors are reading about developments in drugs and treatments

RESULTS strongly in favour of the continued use of stilboestrol for the suppression of lactation have been obtained in a double-blind trial carried out by a worker at Rankin Memorial Hospital, Greenock. Other workers had reported (see *C. & D.*, October 2, 1965, p. 354) that stilboestrol made no significant difference to the degree of discomfort associated with active suppression, and the new trial was made to find out if those results could be repeated. Four pills were compared. The first contained stilboestrol, the second stilboestrol and bendrofluazide, the third bendrofluazide alone and the fourth was a placebo. The failure rates (treatment required beyond a three-day course or patient taken out of the trial) for the two stilboestrol preparations were 13 and 11.5 per cent, respectively, but for bendrofluazide the failure rate was 75 per cent. (suggesting too rapid withdrawal of the drug) and for placebo 59 per cent. About fifty patients were included in each group, the trends by then being obvious, so that there seemed to the author no justification for prolonging the sometimes severe discomfort experienced by patients not receiving stilboestrol. The author concludes that the results support the general clinical impression of the efficacy of stilboestrol (*Lancet*, August 5, p. 286).

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical publications

TABACCO. The chemistry and pharmacology of (Symposium). *Aust. J. Pharm.*, May, p. S30.
SIDE EFFECTS OF DRUGS (symposium). *Aust. J. Pharm.*, May, p. 38.
SEDATIVES, STIMULANTS AND SELF-MEDICATION. (Symposium). *Aust. J. Pharm.*, May, p. S44.
ASPIRIN. The pharmacy of. *Aust. J. Pharm.*, May, p. S53.
STILBOESTROL. Suppression of lactation by. *Lancet*, August 5, p. 286.
PROGESTIN THERAPY OF breast cancer. *Brit. med. J.*, August 5, p. 338.

MITOMYCIN C. Suppression of graft versus host reaction by. *Nature*, August 5, p. 634.
 β -DIETHYLAMINOETHYL DIPHENYLPROPYLACETATE. Potentiation of cortisol induction of hepatic tyrosine transaminase by. *Nature*, August 5, p. 637.

COPPER. Function in the metabolism of iron. *Nature*, August 5, p. 645.

PUROMYCIN effect on memory may be due to occult seizures. *Science*, July 21, p. 333.

CHLORAMPHENICOL-ASSOCIATED BLOOD DYSCRASIAS. *J. Amer. med. Ass.*, July 17, p. 181.

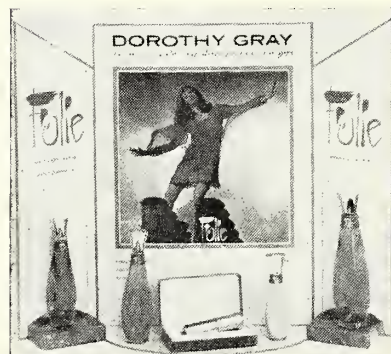
SERUM TRANSAMINASE LEVELS in [Bayer 9015A and carbon tetrachloride] treated fasciola hepatica infected sheep. *Vet. Rec.*, August 5, p. 134.

PRINT AND PUBLICITY

ADOPTING a new approach to point-of-sale material, the baby food group of H. J. Heinz Co., Ltd., Hayes Park, Hayes, Middlesex, has produced free baby menu leaflets for the consumer, giving suggestions for breakfast, dinner and tea, and supporting the Heinz advertising theme of three meals a day at six months of age. The leaflets are designed to fit the company's standard 6 in. x 3 in. shelf "dispensers."

PRESS ADVERTISING

CUXSON, GERRARD & Co., LTD., Oldbury, Birmingham, Carnation foot comfort products. In *News of the World*, *People*, *Sunday Mirror*, *Scottish Sunday Post*, *Belfast Telegraph*, *Woman's Own*, *Woman's Realm*, *Woman's Weekly*, *Woman* and *Woman and Home*.



A DISPLAY PROBLEM SOLVED: The display illustrated, which was produced recently for Dorothy Gray, Ltd., by Ritchie/Dickson, Ltd., 142 Piccadilly, London, W.1, to support the launch of Dorothy Gray's new Folie fragrance range, stands a foot high and incorporates both screen printing and letterpress work in four colours. It is totally collapsible.



FOUR WAYS OF USING PERFUME: A new perfume merchandiser produced by Coty (England), Ltd., 3 Stratford Place, London, W.1, conveys the message that there are "four ways to fragrance"—touch on, stroke on, smooth on and roll on. Complete with seven creamy skin perfumes, four cream sachets, four parfums pour le sac and seven pulse perfumes, the "merchandiser" carries each product in both *Imprévu* and *L'Aimant* fragrances. Price complete is £13 2s. 2d.

TRENTHAM LABORATORIES (distributors: Vestrice, Ltd., Runcorn, Ches); Minnims. In *Sunday Express*, *The People*, *Sunday Times*, *Sunday Post* and *Sunday Mirror*.

PUBLICATIONS

Booklets and Leaflets

BAKELITE XYLONITE, LTD., 27 Blandford Street, London, W.1: "A concise guide to BXL plastics materials and products" (8-p. folder).

B.P. CHEMICALS (U.K.), LTD., Industrial solvents division, Devonshire House, Piccadilly, London, W.1: Bisol Technigram No. 336 on propionaldehyde.

JAPANESE CAMERAS, LTD., 50 Piccadilly, Tunstall, Stoke-on-Trent: Broadsheet on Series "V" accessories for Minolta SR 1v, SR 7v and SR T101. Also technical bulletin on close-up and macro photography.

MAYFAIR PHOTOGRAPHIC SUPPLIERS (LONDON), LTD., Hempstalls Lane, Newcastle, Staffs: Leaflet on Miranda FVT camera.

Catalogues and Lists

AGFA-GEVAERT, LTD., Great West Road, Brentford, Middlesex: "Agfa-Gevaert products '67" (descriptive price list).

COMMERCIAL TELEVISION

The information given in the table is of number of appearances and total screen time in seconds. Thus 7/105 means that the advertiser's announcement will, during the week covered, be screened seven times and for a total of 105 seconds.

Period—August 20-26

PRODUCT	London	Midland	North	Scotland	Wales & West	South	North-east	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is.
Alka-Seltzer ...	4/120	4/120	4/180	5/150	5/150	5/150	5/150	—	5/150	5/150	4/120	5/150	3/90	5/150
Anadin ...	2/60	2/60	3/44	1/40	2/70	1/30	1/30	—	3/15	—	—	2/60	—	—
Andrew's liver salt ...	4/60	1/15	2/30	5/75	4/120	2/30	3/45	5/75	5/75	3/45	3/45	4/60	2/30	2/30
Askit powders and tablets ...	—	—	—	7/49	—	—	—	—	—	—	3/21	2/14	—	—
Bisodol ...	—	—	4/28	—	4/28	—	—	—	—	—	—	—	—	—
Dettol ...	—	1/45	2/90	—	—	—	—	—	—	—	—	—	—	—
Disprin ...	3/45	1/15	3/45	—	—	1/15	2/30	1/15	2/30	1/15	2/30	1/15	—	2/30
Haze ...	3/45	2/30	1/15	—	1/15	1/15	—	1/15	—	1/15	—	1/15	—	1/15
Horlicks ...	4/120	3/90	4/120	2/60	2/60	3/90	2/60	3/90	2/60	3/90	—	3/90	—	—
Immac ...	2/60	—	—	1/30	1/30	—	1/30	—	—	—	—	1/30	—	—
Moorland indigestion tablets ...	1/15	1/15	1/15	1/15	1/15	1/15	1/15	1/15	1/15	1/15	1/15	1/15	—	—
Nair ...	—	—	—	3/45	3/45	—	3/45	—	3/45	3/45	3/45	—	—	3/45
Steradent ...	2/60	3/90	2/60	2/60	1/30	2/60	5/150	2/60	2/60	1/30	1/30	3/90	—	2/60



CLASSIFIED ADVERTISEMENTS

Address Box Number Replies to: Box...., THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2. Tel.: 01-353 6565

This service does not extend to the forwarding of samples.

APPOINTMENTS — 27/- per 1/2" s.c. minimum and pro rata. AGENTS — AUCTION SALES — BUSINESSES FOR SALE AND WANTED — CLEARANCES AND WANTS — CONTRACTS — MISCELLANEOUS — PATENTS — PARTNERSHIPS — PREMISES — PUBLIC and LEGAL NOTICES — SITUATIONS VACANT. Run-on — 4/6 per line (minimum 22/6). Semi-display — £2-14-0 per s.c.i. minimum. Displayed with border rule, larger type faces and blocks — 72/6 per s.c.i. minimum. Reduced rates for one-third, one-half and full pages on application. SITUATIONS WANTED — 7/6 per 18 words minimum, then 5d. per word. Use of Box No. — 3/-. Advertisements received by 4 p.m. Tuesday published same week.

BUSINESSES FOR SALE

TEES SIDE. Established Druggist business for sale, Tees-Side. Previously operated as a pharmacy, situated in good class residential district, good cosmetic and perfume agencies. Terms negotiable S.A.V. Box C 2382.

WHOLESALE BUSINESS FOR SALE

- ★ 14 hours' work per week
- ★ Earns from £350 per month
- ★ No selling
- ★ No experience necessary
- ★ Ample room for expansion

**Full Price
£1600 CASH**

Please reply, by letter only,
to:

BOX C 2392

The Chemist & Druggist

APPOINTMENTS

ANCOATS HOSPITAL, Manchester 4

Pharmacy Technician I

required. Must possess the Certificate of the Society of Apothecaries. Applications, with names and addresses of two persons for reference, to be addressed to the General Superintendent. (Ref. 22).

C 8064

BARNET GENERAL HOSPITAL, Wellhouse Lane, Barnet, Herts

Senior Pharmacist

required in Group Pharmacy of Category V Hospital. Salary £1,151 to £1,435 per annum, and London Weighting £75 per annum. Pleasant modern comprehensive pharmacy. Apply to Group Pharmacist.

C 8063

CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE

Chief Pharmacist

Applications are invited for the post of Chief Pharmacist (Category 1) in the Canterbury Group of Hospitals. Post vacant due to promotion of present holder within the Group. Salary £1,128-£1,444 per annum depending on experience.

Duties will include certain specific responsibilities in the Group Pharmaceutical Department at the Kent and Canterbury Hospital (Category V Hospitals).

Full details of the post may be obtained from the Group Pharmacist, Kent, and Canterbury Hospital, Canterbury (Canterbury 66041). Accommodation available for female candidate (single).

Applications to Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury.

C 8046

CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Chief Pharmacist (Category 1)

required immediately for period of 2 months. Salary £27 3s. 6d. per week.

Accommodation available for female candidate (single).

Applications to and full information from the Group Pharmacist, Kent and Canterbury Hospital, Canterbury (Canterbury 66041).

C 8045

CENTRAL MIDDLESEX HOSPITAL Park Royal, N.W.10

Senior Pharmacist

required in above Category Five Hospital. Duties will rotate between Out-Patients and Main Pharmacy with occasional duties in Sterile Solutions Unit. Department which has been re-equipped can be visited by appointment with Chief Pharmacist, tel.: ELGar 5733. Applications, with full particulars of experience and names of two referees to Hospital Secretary.

C 816

CENTRAL MIDDLESEX HOSPITAL Park Royal, N.W.10.

Locum Pharmacist

required at above Category Five Hospital. Salary £25 18s. 6d. per week. Applications to Hospital Secretary immediately.

C 815

DULWICH HOSPITAL East Dulwich Grove, S.E.22.

Pharmacy Technician I or II

required in general teaching hospital (300 beds). Salary including London Weighting on scales Technician II £371-£638, Technician I £606-£844.

Pharmacist

full-time or part-time (hours by arrangement) required. Applications to Hospital Secretary, Dulwich Hospital, East Dulwich Grove, S.E.22, stating age, experience and names of two referees.

C 8066

CRUMPSALL HOSPITAL, Manchester 8

Senior Pharmacist

required at this General Hospital. Work will include Quality Control. Detailed applications, with names of 3 referees, to Hospital Administrator. (Ref. 16).

C 8058

CRUMPSALL HOSPITAL, Manchester 8

Pharmacy Technician I

required. Must possess Certificate of Society of Apothecaries or equivalent qualification. Detailed applications, with names of two referees, to Hospital Administrator. (Ref. 14).

C 8059

GLENSIDE HOSPITAL Stapleton Bristol

Pharmacy Technician

holding certificate of Society of Apothecaries or other approved qualifications required. Salary £530 rising to eventual maximum of £769. Higher commencing salary could be paid to experienced applicant. Saturday half day with alternate Saturday off. Board residence if required. Applications giving full details and names of two referees should be sent to the Secretary.

C 8065

NEW BARKING HOSPITAL Upney Lane, Barking, Essex

Senior Pharmacist

required for new department. Barking Hospital is adjacent to Upney District Line Station and within 45 minutes of the West End of London and the East Coast. Salary Scale £1,076-£1,340 p.a. plus London Weighting. Accommodation may be made available if required.

Applications together with the names of two referees to the Group Secretary, King George Hospital, Eastern Avenue, Newbury Park, Ilford, Essex.

C 779

NEW BARKING HOSPITAL Upney Lane, Barking, Essex

Basic Grade Pharmacist

required for this New Hospital adjacent to Upney District Line Station and within 45 minutes of the West End of London and the East Coast. Salary Scale £988-£1,242 p.a. plus London Weighting.

Applications together with the names of two referees to the Group Secretary, King George Hospital, Eastern Avenue, Newbury Park, Ilford, Essex.

C 778

ROYAL FREE HOSPITAL Gray's Inn Road, W.C.1

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in the Sterile Products Unit at Liverpool Road, Islington, supplying the needs of the whole Group. Salary in accordance with the Whitley Council Scale with extra pay for evening clinics. There is a possibility of accommodation if required. Apply naming two referees to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, London, W.C.1.

C 7983

Appointments—Continued.**ST. ALBANS CITY HOSPITAL**
St. Albans, Herts.

Locum Tenens Pharmacist
required 4th to 30th September, 1967.
Salary £24 9s. 6d. per week. Applications
to Hospital Secretary C 813

ST. ALBANS CITY HOSPITAL
St. Albans, Herts.

Senior Pharmacist
(£1,076-£1,340) required in July 1967 at this
Category III hospital. Good and varied ex-
perience for young Pharmacist. New ward
block opening this summer. Applications
naming two referees to Chief Pharmacist.
C 810

SHREWSBURY GROUP
HOSPITAL MANAGEMENT
COMMITTEE**Shelton Psychiatric Hospital,**
Shrewsbury**Chief Pharmacist**

Applications are invited from suitably quali-
fied persons for the post of Chief Pharma-
cist. Unfurnished house available at
moderate rental.

Salary on the scale £1,232 rising by in-
crements to £1,558.

The conditions of service in accordance
with the Pharmaceutical Council of the
Whitley Council.

Applications, accompanied by the names
and addresses of three referees, should be
addressed to the Medical Superintendent,
Shelton Hospital, Shrewsbury. C 8055

THAMES GROUP OF
HOSPITALS**ST. ANDREW'S HOSPITAL**
Devons Road, London, E.3**Pharmacy Technician I or II**

required for 25th September. Hospital
adjacent to Bromley-by-Bow Station—20
minutes from Central London. Apply to
Hospital Secretary C 8060

ST. MARGARETS HOSPITAL,
Epping, Essex**Pharmacy Technician I**

required. Whitley Council scale. Hospital
situated in pleasant country surroundings
with direct Underground access to London.

Apply giving details of experience to-
gether with the names of two referees to
Hospital Secretary. C 8054

THE ROYAL FREE HOSPITAL**Pharmacist**

Applications are invited for the post of
Pharmacist at the above Hospital. Salary
on the scale £988 per annum plus London
Weighting rising to £1,242 per annum with
higher qualification allowance and extra
pay for evening clinics. Applications with
names of two referees should be addressed
to the Group Chief Pharmacist, Royal Free
Hospital, Gray's Inn Road, London, W.C.1.
C 783

IMPORTANT

Box Office numbers are intended ex-
clusively for specific answers to par-
ticular advertisements. Price Lists,
Trade Circulars, Samples and Printed
Matter cannot be forwarded.

APPOINTMENTS
OVERSEAS**AUSTRALIA****North-Western General**
Hospital, Burnie, Tasmania**SECOND PHARMACIST**

A vacancy for the above post now exists.
This is an opportunity for an energetic and
ambitious person to participate in building
up an expanding department in a progres-
sive hospital.

Salary range:

At present \$A62.05 to \$A83.60 per
week according to experience.

Accommodation:

A house will be available for a
nominal rental.

Travelling Expenses:

These will be refunded according to
a generous scale.

Requests for full information, brochures
etc. should be addressed to the Super-
intendent, Dr. M. Jooste, North-Western
General Hospital, Burnie, Tasmania.
Applications should include full personal
details and the names and addresses of
two referees. C 8061

SITUATIONS VACANT
RETAIL

**FINNIGANS LTD., MANCHESTER AIR-
PORT**, Wythenshawe, Manchester, 22, re-
quire for their Manchester Airport Phar-
macy, a lad/ pharmacist to act as
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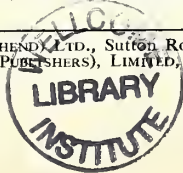
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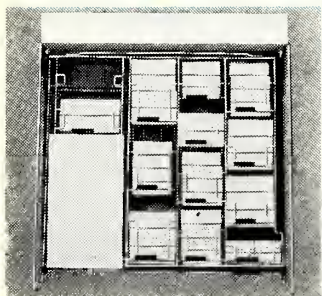
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